390 25 450 Q M N CAA ATG AAT V GTA GCA R CGA E GAA CAAACGCAAGGACTGGACTCCATGCCGAAGGTATCTGGAAGTCGTGACACGGTGTGTATAAAACAAAAGTTTGCGAGCT GTTAATTGCTGTGTGTTTTTAAGAGACGCTTTCAAGTTTCAAGTACCAAATGTAGCTTTACGTTGCCAAAGGAAGT Ø V GTT D GAT I ATT G GGG S T TCT ACT D N GAT AAT V GTA H CAC CAC N AAC S TCA CCT E M TGAGGCAATTGCTTTTTTAACTTTGCTCTGTGAGGGAAATCTCATAAACTGACCA ATG G GGA $^{
m F}$ P N CCT AAT (STCT N AAC V GTT R AGG V GTA L I V CTG ATA GTA ÇAG CTT V GTA L K TTG AAG E GAA CTT A L GCA CTT (E GAG L CTA $_{\mathtt{TAT}}^{\mathtt{Y}}$ PCCT L TTA F I ATT V GTT S TCT R AGG V GTT D GAT N AAT GGA GGA F TTT $^{
m Y}$ A GCT R AGG K AAA R AGG VGTG F TTT Q CAG $^{
m L}_{
m TTG}$ D GAT CAC n AAT GAG M ATG M ATG A GCC K AAG S TCA A K GCT AAA ტ ტტე L CTA CTG R AGA

Fig. 1A

225 1050 105 690 125 750 145 810 165 870 185 930 205 990 S E GAG D GAT E GAG Q CAG V GTT D GAT A GCT C TGT I ATT PCCA IATC PCCT EAA P CCT L TTA N AAC I ATT PCCT D GAT N AAT E GAG V GTA SAGC L TTG H CAT I ATA F TTT R AGA G GGA N AAC F TTT N AAC FLCTC A GCA V GTC M ATG D GAC FTTTK AAA S AGT D GAT VGTG D GAC CTT S TCT N AAT Q CAG D GAC Q CAG R AGA N AAT I ATA S TCA S ည် သည် L CTG S TCA L CTG A GCC LCTC A GCC D GAC L CTG PCCC TACT H CAT F TTT S TCT E GAA S TCA CAA I ATT Q CAG CFC CHC CHC E GAG A GCA I ATT E GAA T ACA P CCC CGC S TCG Y TAT Q CAG S AGC TACT R CGT P CCC Y S TCT K AAG L CTT I ATA D GAC N AAT G GGG TACA A GCC K AAA L CTA E GAG I ATT TACT D GAC $_{\rm GTT}^{\rm V}$ H CAC Y TAC GGA T ACA I ATC N AAT A GCA CTC D GAT S AGC I ATA A GCT V GTG I ATT A GCA S TCC T ACT S TCA S TCC ი მმმ D GAT D GAT S AGT N AAT R AGG K AAG S TCA I ATA E GAG F I'I'I L E TACC L 9 9 SAGC E GAG V GTG S TCT G GGG CGG E GAG S TCT IATC I ATA IATA V GTT GAA V GTT R GGG R AGG

Fig. 1B

265 1170 285 1230 305 1290 325 1350 345 1410 365 1470 385 1530 CIC $^{
m F}$ H CAT Q CAG VGTG E GAA Q CAG F TTT L TTG S TCC G GGA V GTT E GAA H CAC V GTT V GTT D GAT TACT $_{\mathtt{TAT}}^{\mathtt{Y}}$ R AGA K AAG K AAA GGT R AGA 9 9 9 0 E GAA I ATT I ATT V GTA G GGA V GTC H CAT E GAG V GTT I ATT S TCT I ATA PCCT Γ G GGA YTAT P CCG K AAA D GAT H CAT I ATT S A GCT နှင့် သည် ი მემ I ATT K AAA SM ATG V GTT LCTT AAC K AAA N AAT K AAA C TGC LCTC F TTT K AAG E GAA A GCT FTT T ACC H CAT N AAC T ACA C TGT 9 9 IATC D GAT ACT A GCC I ATC V GTT CHC E GAA E GAG E GAG Р ССА N AAC I ATT I ATA CAA D GAT M ATG Y TAT E GAA I ATC I ATT PCCT S TCA I ATA РССА I ATT E GAA D GAT D GAT G GGA I ATA D GAT K AAA VGTG N AAT PCCT G GGG N AAT Y TAT ACG PCCC CAA РССА K AAA E GAA CIG s TCT A GCC S TCT K AAG G GGT N AAT ი მმმ F TTT CAA N AAT VGTG \mathbf{F} Γ DGAC I ATT S TCT Q CAG L CTG H D GAT L CTT N AAT YTAT D GAT Q CAA E GAG D GAT S AGT TACT V GTT S TCT K AAG F TTT AGCT L ITA S AGC L TTG GAC D GAT I ATA

Fig. 1C

525 1950 545 2010 565 2070 425 1650 445 1710 465 1770 485 1830 505 1890 R AGA CIC $^{
m F}$ T ACC L TTG GGA V GTA ACC IATC IATC D GAT H CAC N AAT V GTG CIC SAGT \mathbf{Y} \mathbf{TAT} T ACC FTTTV GTG L CTG CCC CCC CCC S TCT T ACA A GCA T ACT TACA P CCA Y TAC PCCA V GTT ი მმმ I ATC A GCC 9 9 9 N AAT T ACA D GAC ACA N AAT R AGG D GAC P CCA V GTG I ATT Q CAG ACC D GAC S TCA ACC N AAT TACT N AAT CAA S AGT N AAC L TTA E GAG I ATC ი მმმ V GTA VGTG SAGC D GAT N AAT VGTA A GCT N AAT Y TAT E GAA I ATC $_{
m LTA}$ I ATC N AAT E GAA E GAA $_{\rm L}^{\rm L}$ E GAA T ACA Y TAT V GTA I ATC S TCA G GGA TACT H CAT CAA N AAT I ATT D GAT K AAG TACT CTT CAA I ATA N AAC L TTG V GTT $_{\tt GTA}^{\tt V}$ S P CCG D GAT F TTT E GAA S AGT IATC S AGC ACA F TTT S AGT PCCT Y TAT Y TAT F TTT E GAA D GAT G GGA R AGA G GGA E GAG $^{
m Y}_{
m TAT}$ T ACA CTC GGA H CAT CTA K AAG S TCT K AAA I ATT A GCC D GAT R CGA A GCC Q CAG Y TAT R AGA V GTG S AGC T ACA F TTT R AGA I ATC CTT K AAG T ACA R AGA V GTT S AGT A GCA K AAA S TCT Q CAG TACT E GAG A GCC E GAA E GAA

Fig. 1D

605 2190 625 2250 645 2310 665 2370 685 2430 705 2490 725 2550 T ACG E GAG D GAT Q CAG A GCA S AGT S N AAC N AAT M ATG R AGG N AAT PCCT T ACA I ATT C TGT S AGC N AAT I ATA GGT N AAT V GTG I ATT R AGG R CGT A GCA V GTT 9 9 9 9 S TCG I ATA R AGA TACT L TTG T ACA N AAC E GAG I ATA A GCA V GTA K AAA A GCA I ATA T ACC D GAC A GCA M ATG VGTC F TTT H CAT Q CAG H A GCC Y TAT နှင့် သည် LCTA P CCT ი მმმ F TTT ၁ ၁၅ IATC IATT E GAA V GTC V GTG I ATA S AGC D GAC D GAT ာ သို့ I ATC F M ATG V GTT $_{\rm TGT}^{\rm C}$ S AGT CTC V GTT L I ATC I ATT M ATG S TCA V GTG E GAA E GAA S TCA အ ၂၁၁ V GTT CCT A GCT A GCT L CTG J J G C CIG R CGA A GCA V GTT G GGG N AAT E GAG K AAG PCCA Q CAG L TTG AAC K AAA V GTG D GAT $\mathbb{V}_{\mathbb{G}}$ CFG S AGC VGTG I ATT DGAC CCC a GGT E GAA CIT V GTA A GCA I ATT S TCT I ATA T ACA V GTC S TCA C TGT D GAC E GAA TACC F YTAC K AAA TACT I ATT D GAC IATC I ATC CCC ACC A GCA R AGA M ATG I ATT D GAC E GAA N AAT V GTT H A GCA G GGA IATC A GCA I ATT EGAG S TCT T ACA CTA L TTA

Fig. 1E

745 2610 765 2670 785 2730 805 2790 825 2850 865 2970 845 2910 H CAC I ATA L TTA L TTG PCCA MATG Y TAT T ACT Q CAG TACC TACC S AGT A GCC Q CAG D GAC D GAT Y PCCT PCCT N AAC H CAC CAA Y TAT S AGT TACT V GTG S TCT CTC ACC. Q CAA CTT DGAC S S TCA L TTG S TCA CTC G GGG A GCC G GGA E GAA T ACA S TCT Q CAG E GAA Q CAG Y TAT A GCA P CCA L TTA A GCC I ATC H R AGA E GAG H V GTG D GAC S TCT S AGT S TCA L CTT Y TAC S AGT R AGG GGG S TCG N AAC F MATG S AGC D GAC ၁ ၁၅ H S TCA R AGG K AAA R AGA N AAT a GGT N AAC H H CAC S AGT E GAG CTT S R CGT Y TAT I ATT Q CAG ССА Y TAT H CAT L 9 9 နှင့် ၁၁၁ Q CAG Q CAG R CGG VGTG K AAA S TCT SAGT R AGA R CGG R AGA S AGC H CAC S TCT N AAC GAC TACT I ATC 3 G GGC N AAC V GTC G GGA R AAA D GAC P CCA PCCC M ATG S TCA Q CAG R CGA L TTG K AAA L CTG Q CAG R AGG S TCA EGAG F TTT S AGC K AAG T ACT G GGG I ATC K AAA V GTT S AGT F E GAG R AGA T ACA P CCA 9 9 9 0 A GCT PCCA K AAA V GTG 7 2 2 2 2 3 3 3 HCAC N AAT GAA GAC PCCT R AGA

Fig. 1F

925 3150 945 3210 965 3270 1005 1025 3450 985 330 \mathbf{F} TTT L S AGT Q CAG TACC E K AAA L CTC L R AGG V GTC H S TCC L CTG A GCC S TCT D GAC R AGG $_{\mathtt{TAT}}^{\mathrm{Y}}$ P CCA YTAT F TTT S TCT Р ССА S AGC D GAT ာ် T H CAT S AGT S TCA T ACC L TTG K AAG F E GAG S TCT Q CAG T ACA D GAC CCC G GGA E GAG S TCT Q CAG K AAG S AGC L CTG GGA GGA E GAA ACG PCCG Q CAG K AAG TACC K AAG S TCC G GGT ၁ ၁၅ PCCC S E D GAT PCCT R AGG L r Si Si CCC CAA a GGT 9 9 9 9 PCCG R CGC L CTG $_{
m LTA}$ T ACG R AGA L S TCC TACT E GAG R AGG M ATG Р ССА PCCA D GAT D GAC CTC L CTG D GAT A GCT PCCA E GAG F TTC A GCA RCGT S I ATA A GCA MATG E GAA PCCT D GAT Q CAG N AAC ССA СĊА \mathbf{W} E GAA Q CAG N AAC FTTC S S TCT I ATT C TGC ი მემ A GCT PCCA VGTG R CGG D GAT Q CAG R AGA P CCA D GAC S TCC S AGT D GAT RCGA GGA D GAC I ATT D GAT D GAC S AGC V GTG G GGG D GAT S TCT F E GAG K AAG M ATG EGAG L TTG ACA H CAC M ATG L GGA EAA S AGT D GAT CHC S AGT GGA NAAC F TTT S ICG ဂ်ပ် ဂြိ

0

50

1065	1085	1105	1125	1135
3570	3630	3690	3750	3783
CCC	W TGG	CHC	I ATT	
N	K	V	E	
AAT	AAA	GTG	GAG	
CAA	S TCA	N AAT	A GCA	
F	S TCT	D GAC	V GTG	
H	P	F	L	
CAT	CCT	TTT	CTG	
T	Q	D	E	
ACG	CAG	GAT	GAA	
S	V	D	S	
AGT	GTG	GAT	AGT	
A	S	E	A	
GCC	AGT	GAA	GCC	
A	S	E	D	
GCA	TCC	GAG	GAT	
W TGG	H	$_{\mathtt{TAT}}^{\mathtt{Y}}$	M ATG	* TAG
A GCA	ACT	N AAT	CTC	S AGC
A	G	E	E	Q
GCG	GGA	GAA	GAA	CAG
V	CTT	P	H	R
GTA		CCT	CAC	CGC
ი	PCCA	I	K	V
ციც		ATC	AAA	GTC
Q CAG	P CCG	E GAG	ი ი ი	D GAT
PCCA	ი ი	E GAG	D GAT	CAA
Y	C	M	N	CTT
TAC	TGT	ATG	AAT	
GGT	N AAC	A GCC	CHC	CIG
V	T	P	H	K
GTG	ACC	CCA	CAC	AAA
TACT	T	L	N	N
	ACC	CTG	AAC	AAC

Fig. 1H

Fig. 11

GTTTAGTCTGCAGCCGAGCAACTAAAGGGAGAAAAAAAATCGCTCAGGAAAGACACACTGCAGACTCCACCGGCACCCTGC CAAACGCAAGGACTGGACTCCATGCCGAAGGTATCTGGAAGTCGTGACACGGTGTGTATAAAAACAAAAGTTTGCGAGCT STTAATTGCTGTGTGTTATTAAGAGACGCTTTCAAGTTTCAAGTACCAAATGTAGCTTTACGTTGCAAAGGAAGT

158

237

85 630 390 25 450 45 510 65 570 105 690 N AAT V GTA A GCA R CGA E GAA S TCC MATG CTGTD GAT I ATT V GTT ი მვვ V GTA CAA H CAC TACT N AAT N AAC H CAC D GAT N AAC S TCA S TCT L TIG MATG PCCT F TTC GGA N AAC E GAG TGAGGCAATTGCTTTTGCTGTTTTAACTTGCTCTGTGAGGGAAATCTCATAAACTGACCA S TCT V GTT N AAT N AAC K AAA V GTA PCCT V GTA R AGG Q CAG I ATA Q CAG CTT V GTA သည် T L CTG K AAG CIT E GAA CIG LCTT E GAG r TTG L CAA A GCA $_{
m TAT}$ P CCT L TTA E GAA FTTTI ATT V GTT S TCT R CGT V GTT R AGG D GAT N AAT D GAC YTAC F TTT A GCT I ATT GGA R AGG K AAA V GTG R AGG T ACA TTT Γ D GAT Q CAG A GCT ſщ H CAC N AAT MATG E GAG G GGG ATG K AAG STCA A GCC I ATA Z ဗဗ္ဗ AAA L CTA S AGC R CGA × 3CT I ATC L CTG R AGA F I'T'T

Fig. 2A

225 1050 245 1110 125 750 145 810 165 870 185 930 205 990 VGTT E GAG D GAT E GAG D GAT Q CAG A GCT L E GAA IATC I ATT P CCA L TTA PCCT PCCT L PCCT D GAT N AAT E GAG V GTA S AGC TACT I ATT H CAT N AAC I ATA F TTT F TTT R AGA GGA 9 9 9 V GTC D GAC $^{\mathrm{F}}$ CIC A GCA F M ATG VGTT CTT D GAT STCT S AGT V GTG D GAC N AAT P Q CAG D GAC N AAT R AGA I ATA S TCA S TCC နှင့် ၁၁၁ CIG L A GCC L S TCA A GCC D GAC N AAC E GAA H CAT $^{
m F}$ PCCC S TCT E GAA TACT S TCA E GAG Q CAG I ATT GFC A GCA CTC I ATT L TTA T ACA CGC CCC STCG Y TAT Q CAG SAGC CIC CCC CCC Y TAC K AAG S T ACT I ATA CTT CAA LCTA G GGG A GCC N AAT T ACA EGAG K AAA I ATA TACT DGAC H V GTT G GGA $_{\rm TAC}^{\rm Y}$ LCTA I ATA CTC N AAT D GAT I ATC A GCA SAGC I ATA Y TAT V GTG I ATT S TCC A GCA T ACT S TCA S STCT D GAT D GAT S AGT R AGG N AAT K AAG S TCA CAA F TTT L CTG E GAG T ACC E GAA L CTG Q CAG GGC E GAG VGTG S TCT ۳ С G GGG E GAG STCT E GAG I ATA E GAA V GTT V GTT I ATA ZGG R AGG F

Fig. 2B

285 1230 305 1290 325 1350 345 1410 365 1470 385 1530 425 405 F H CAT Q CAG V GTG E GAA Q CAG F TTT R AGA S TCC V GTT V GTT D GAT G GGA E GAA V GTT H Y TAT K AAG R AGA D GAT K AAA R AGA CTG G GGT E V GTA I ATT I ATT G GGA V GTC H CAT T ACA I ATT E GAG I ATA S TCT PCCT L G GGA A GCC K AAA I ATT D GAT $_{\rm TAT}^{\rm Y}$ S TCC A GCT H N AAT ი მმმ K AAA I ATT $\overset{S}{\neg}\overset{G}{\cap}$ M ATG TACT VGTT CTT N AAT K AAA K AAA ည် TgC CTC F TTT K AAG L TTA A GCT F TTT ACC H CAT N AAC C TGT T ACA I ATC $_{
m L}$ ာ ၁၅ I ATC A GCC TACT I ATC D GAT V GTT E GAG E GAG E GAA Р ССА N AAC I ATT I ATA $^{
m Y}_{
m TAT}$ M ATG I ATC D GAT $_{\mathtt{TAT}}^{\mathrm{Y}}$ I ATT P CCT E GAA N AAT S TCA ССА D GAT I ATT EAA N AAC D GAT G GGA D GAT K AAA VGTG N AAT P CCT ი მმმ E GAA N AAT T ACG CCC CAA CCA K AAA GAA CIG Y TAT A GCC $\overset{S}{\text{TCT}}$ K AAG G GGT N AAT ი მმმ T ACA F N AAT VGTG F Γ D GAC K AAG I ATT S TCT CIG D GAT N AAT Q CAG H CTT Y TAT D GAT D GAT S AGT TACT CAA V GTT S TCT K AAG LCTT $_{\mathrm{TTA}}$ SAGC L TTG A GCT D GAT D GAC I ATA K AAA

Fig. 2C

525 1950 565 2070 585 2130 465 1770 485 1830 505 1890 545 2010 CTC $^{\mathrm{F}}$ TACC Γ G GGA V GTA TACC TACG I ATC N AAT S AGT CAC I ATC N AAT V GTG CIC TACC N AAT CCC CCC $_{\mathtt{TAT}}^{\mathtt{Y}}$ S TCT V GTG F TTT ACA A GCA Y TAC TACT P CCA P CCA V GTT R CGT ი მმმ G GGG T ACA DGAC N AAT I ATC ACA L TTG R AGG D GAC PCCA VGTG I ATT Q CAG ACC A GCA D GAC CAA N AAT S TCA T ACC N AAT S AGT P CCT E I ATC G GGG N AAC V GTA V GTG SAGC G GGG A GCT D GAT N AAT N AAT Y TAT V GTA E GAA I ATA IATC E GAA CIG N AAT E V GTT T ACA EAAA V GTA I ATC S TCA G GGA T ACT H CAA VGTG CAA I ATT LCTT K AAG I ATA D GAT PCCT L TTG V GTT V GTA D GAT အ TCC P F VGTT S AGT T ACA CCT I ATC S AGC F TTT S AGT N AAC Y TAT F TTT E GAA D GAT G GGA R AGA G GGA DGAC E GAG H CAT Y TAT TACA CTC L CTA G GGA N AAT R CGA S TCT K AAA A GCC I ATT A GCC D GAT E GAA R AGA V GTG TACA D GAC S AGC F TTT Y TAT R AGA K AAG T ACA R AGA VGTT S AGT I ATC A GCA I ATT S TCT Q CAG E GAG I ATC E GAA TACT A GCC E

0 2

2D Fig.

725 2550 605 2190 625 2250 665 2370 745 685 2430 705 2490 0 2 64! 231 D GAT A GCA E GAG Q CAG S AGT STCC N AAC H R AGG M ATG PCCT TACA C TGT Q CAG N AAT I ATT I ATA N AAT VGTG G GGT S AGC R AGG Y TAC I ATT R AGA A GCA V GTT GGC S TCG I ATA TACT TACT T ACA V GTA N AAC K AAA E GAG I ATA A GCA S TCA TACC M ATG D GAC I ATA A GCA F TTT E GAA H CAT A GCC H Q CAG $_{\mathtt{TAT}}^{\mathtt{Y}}$ S TCC A GCC L CTA I ATC I ATT V GTC F TTT ာ TgC EAA GAA V GTG V GTG 9 9 9 S AGC D GAC IATC \mathbf{F} D GAT M ATG R AGG S AGT V GTT CHC C TGT I ATC L I ATT ၁ ၁၅ E E GAA S TCA S TCA M ATG S TCC V GTT N AAC A GCT L CTG ာ TgC A GCT R CGA A GCA L CTG Y TAT K AAG ი მმმ N AAT P CCA E GAG Q CAG L TTG S K AAA V GTG D GAT \mathbf{W} L CTG S AGC V GTG R AGA CCC GGT I ATT E GAA CTT V GTA A GCA TACT S TCA I ATT S TCT I ATA T ACA D GAC V GTC Γ ACC. D GAC $^{\mathrm{F}}$ Y TAC K AAA TACT I ATT K AAA I ATC R AGA I ATC CCC ACC ATG A GCA \mathbf{z} EAA D GAC N AAT H CAT EGAG V GTT A GCA G GGA I ATT E GAG A GCA L S TCT T ACA L TTA 3 3 3 3 3 3 3 3 3

Fig. 2E

825 2850 884 3027 765 2670 785 2730 805 2790 844 2907 864 2967 904 3087 I ATA L TTA $\frac{1}{1}$ TACT M ATG Y TAT F TTT TACC A GCC DGAC D GAT T ACC S AGT PCCA L CTG H CAC Q CAG CCT PCCT N AAC CAA S AGT DGAC CIC T ACC Y TAT CTT DGAC SAGC S TCT L TTG S TCA S TCA CTC Q CAA A GCC G GGA F T ACA S TCT Q CAG E GAA G GGG Υ TAT A GCA G GGA I ATC P CCA L TTA Q CAG E GAG E GAA H R AGA D GAC S AGT S TCT S AGT $^{\mathrm{S}}$ H Y TAC G GGT ი მმმ S TCG L CTT D GAC N AAC F S AGC L CTG N AAT K AAA R AGG GGT R AGA CAC M ATG L CTG S TCA HCAC . H CAC E GAG S AGT $^{\rm S}$ R CGT R AGG Q CAG I ATT P CCA CIT g GGC H Y TAT D GAT Q CAG CGG CGG VGTG CTT K AAA S AGT I ATA S TCT CGG R AGA S AGC H Q CAG N AAC D GAC P CCA S I ATC 9 9 9 9 N AAC s TCT G GGA K AAA S TCT S TCA CCC CCA MATG V GTC R CGA L TTG D GAT R AGG L CTG Q CAG E GAG S AGC S TCA F TTT R CGA ACT ი მმმ I ATC VGTT SAGT F TTT G GG CCA GGC R AGA T ACA A GCT PCCA K AAA L TTG H N AAT EAA VGTG CCT R AGA D GAC D GAT

Fig. 2F

924 3147 1044 3507 964 3267 984 3327 1004 3387 1024 3447 1064 3567 944 S AGT T ACC CTG Q CAG LCTC GAA K AAA CCC 闰 S TCC R AGG H CAT L CTG A GCC N AAT S TCT R AGG Y TAT PCCA ССА CAA F TTT $\overset{S}{\text{TCT}}$ $_{\mathtt{TAT}}^{\mathtt{Y}}$ ာ Taga D GAT H CAT S AGT S TCA T ACC L F TTT EGAG K AAG S TCT Q CAG TACA D GAC CCC H CAT E GAG Q CAG K AAG S TCT S AGC L. CTG G GGA T ACG T ACG PCCG Q CAG K AAG T ACC S TCC K AAG S AGT ၁ ၁၅ E S TCA CCC D GAT R AGG A GCC PCCT CTC CCC CAA a GGT . 966 P CCG CGC A GCA R AGA r CTG T ACG S TCC TACT E GAG TGG GG L TTA M ATG D GAT D GAC PCCA PCCA CTC L A GCA A GCT A GCA PCCA F E GAG S TCC A GCG R CGT A GCA MATG E GAA D GAT Q CAG PCCT N AAC V GTA P CCA TGG E GAA Q CAG N AAC F S TCC 9 9 9 I ATT ၁ ၁၅ G GGG A GCT P CCA V GTG 지 D . Q CAG ССА R AGA Q CAG D GAC S TCC S AGT D GAT P CCA g GGA D GAC I ATT D GAT D GAC S AGC V GTG Y TAC D GAT S TCT F E GAG K AAG M ATG E GAG G GGT T ACA H MATG L CTT GGA E GAA S AGT V GTG CHC CHC GGA N AAC S AGT S TCG ာ T FTT T ACT

Fig. 2G

1084	1104	1124	1134
3627	3687	3747	3780
TGG	CTC	I ATT	
K	V	E	
AAA	GTG	GAG	
S	N	A	
TCA	AAT	GCA	
S	D	V	
TCT	GAC	GTG	
PCCT	F TTT	L CTG	
Q	D	E	
CAG	GAT	GAA	
V	D	S	
GTG	GAT	AGT	
S	E	A	
AGT	GAA	GCC	
S	E	D	
TCC	GAG	GAT	
H	$_{\mathtt{TAT}}^{\mathtt{Y}}$	M ATG	* TAG
TACT	N AAT	CHC	S AGC
G	E	E	Q
GGA	GAA	GAA	CAG
CTT	P CCT	H CAC	CGC
P	I	K	GTC
CCA	ATC	AAA	
P	E	ე	D
CCG	GAG	ე	GAT
უ	E	D	Q
ტტ	GAG	GAT	CAA
C	M	N	CTT
TGT	ATG	AAT	
N	A	CTC	CTG
AAC	GCC		CTG
ACC	P	H	K
	CCA	CAC	AAA
ACC	L	N	N
	CTG	AAC	AAC

4570 3938 4096 4175 4649 859 4254 4333 4412 4491 ATTGTTAAGCTATTTTATTGTTATTTTCTCTACTTTCTACTAGCCCCCAATAGTTGAACTCTTATAGGAAAATCGAAAGA TGGCATTGCCAAATAGTTGCATTTATCATAAATGTGTCTGTGTATATTGAATATTAAATACTGTATTTCGTATGTACA TTTTATTTTTTTACTCCCATGACAGACATGTTTTTCCTAGTCGTGTAGAAACTAGCCACTGTTCAAATCTGATACACTA GAAGCATTATACAATTCTTAATTCCATTAAGTGATCCCACTTTTTTTCAATAACTTTTTAGAAATTAAGAATCATTAAA AGACAATGATGAAACAGAACTAAAGTCAATGTTTCCTGACTCCCAGGCCCCTACTATTCCAGGCCATCACACTGGCCT GTTCCGGAGAATATTTCTCTCACAATATTATTATCTACTTATAATTATGGTAAACAATAAATTTTATTCCATCCTTGTA GTATGAAACATGCTCCAAGGAAATGGAATCTGTCCTTTAAATGGATAACAGTATGTGTTCTAATGGCATAAAATATTAC

Fig. 2H

TCTCCCCTTTCCTCACACATACTTGAACATTTTTAATCTTTTGGAATATTGTCTTTCTT	AGCTTTTGTCTCCAGTGCATGATCTCATATTTTTTGCTTTTTTTT	TACTGCAATTGTTTTTTTTTGTGTGGCAAATGAGAAATCCTTTATTTA	CTTGGTGAGAGAGATGCTTATTATGACTATTATCATTTCTGACCAAGCTTCTATTAATGTTATTTCTAATAATACACTA	TCTTGATTGTACTCTCCAGAAATTTTTCTGTCAGTGAAAATAAAAGAAAATTAAAAGTAAAAAAAA
-------------------------------------------------------------	-----------------------------------------------	--------------------------------------------------	---------------------------------------------------------------------------------	--------------------------------------------------------------------

Fig. 2I

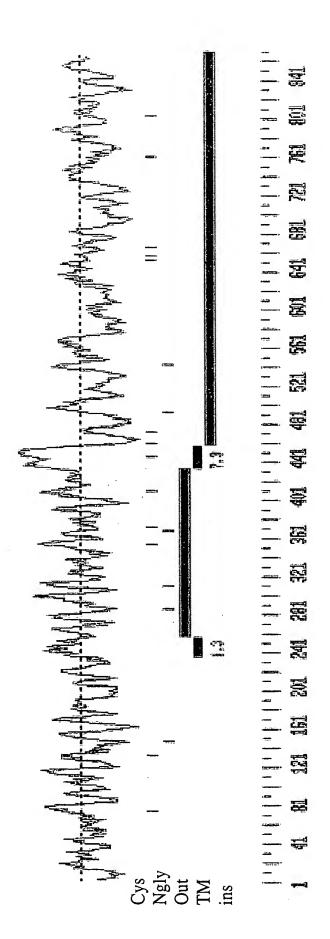


Fig. 3

T416	1651 GAAAAGAGATCTGAGTATAGTTTGACTGTAATCGCTGAGACAGGGGGGAC	1700
AL137471		47
T416	1701 ACCCAGTCTCTACAGTGAAACATTTTACAGTTCAAATGATATCA	1750
AL137471		97
T416	1751 ATGACAATCCACCCCACTTCCAGAGAAGCCGATATGAATTTGTAATTTCA	1800
AL137471	98 ATGACAATCCACCCCACTTCCAGAGAAGCCGATATGAATTTGTAATTTCA	147
T416	1801 GAAAATAACTCACCAGGGGCATATATCACCACTGTTACAGCCACAGATCC	1850
AL137471	148 GAAAATAACTCACCAGGGGCATATATCACCACTGTTACAGCCACAGATCC	197
T416	1851 TGATCTTGGAGAAAATGGGCAAGTGACATACACCATCTTGGAGAGTTTTA	1900
AL137471		247
T416		1950
AL137471	248 TTCTAGGAAGTTCCATAACTACATATGTAACCATTGACCATCTAATGGA	297

FIG. 4A

T416	1951	GCCATCTATGCCCTCAGAATCTTTGATCATGAAGAAGTGAGTCAGATCAC	2000
AL137471	298	GCCATCTATGCCCTCAGAATCTTTGATCATGAAGAAGTGAGTCAGATCAC	347
T416	2001	TTTTGTGGTAGAAGCAAGAGATGGAGGAAGCCCGAAGCAACTGGTAAGCA	2050
AL137471	348		397
T416	2051	ATACCACAGTTGTGCTCACCATCATTGACGAAAATGACAACGTTCCTGTG	2100
AL137471	398		447
T416	2101	STTATAGGGCCTGCATTGCGTAATAATACGGCAGAAATCACCATTCCCAA	2150
AL137471	448 (GTTATAGGGCCTGCATTGCGTAATAATACGGCAGAAATCACCATTCCCAA	497
T416	2151 2	*AGGGGCTGAAAGTGGCTTTCATGTCACAAGAATAAGGGCAATTGACAGAG	2200
AL137471	498		547
T416	2201 7	ACTCTGGTGTGAATGCTGAACTCAGCTGCGCCATAGTAGCAGGTAATGAG	2250
AL137471	548 7		597

FIG. 4B

T416	2251	GAGAATATCTTCATAATTGATCCACGATCATGTGACATCCATACCAACGT	2300
AL137471	598	GAGAATATCTTCATAATTGATCCACGATCATGTGACATCCATACCAACGT	647
T416	2301	TAGCATGGATTCTGTTCCCTACACAGAATGGGAGCTGTCAGTTATCATTC	2350
AL137471	648		697
T416	2351		2400
AL137471	698	AGGACAAAGGCAATCCTCAGCTACATACCAAAGTCCTTCTGAAGTGCATG	747
T416	2401		2450
AL137471	748		797
T416	2451		2500
AL137471	798	CCAGGCATCCTTGGATGTCTCCATGATAATAATTATTTCCTTAGGAGCAA	847
T416	2501	· · · · · · · · · · · · · · · · · · · ·	2550
AL137471	848		897

FIG. 4C

T416	2551 CGCGAGAAGACACTAGATCCTATAACTGCAGGGTGGCCGAATCAAC 2600
AL137471	
T416	2601 TTACCAGCACCAAAAAGGCCATCCCGGCAGATTCACAAAGGGGACA 2650
AL137471	948 TTACCAGCACCACCCAAAAAGGCCATCCCGGCAGATTCACAAAAGGGGACA 997
T416	2651 TCACATTGGTGCCTACCATAAATGGCACTCTGCCCATCAGATCTCATCAC 2700
AL137471	998 TCACATTGGTGCCTACCATAAATGGCACTCTGCCCATCAGATCTCATCAC 1047
T416	2701 AGATCGTCTCCATCTTCATCTCCTACCTTAGAAAGAGGGCAGATGGGCAG 2750
AL137471	
T416	2751 CCGGCAGAGTCACAACAGTCACCAGTCACTCAACAGTTTGGTGACAATCT 2800
AL137471	
T416	2801 CATCAAACCACGTGCCAGAGAATTTCTCATTAGAACTCACCCACGCCACT 2850
AL137471	1148 CATCAAACCACGTGCCAGAGAATTTCTCATTAGAACTCACCCACGCCACT 1197

FIG. 4D

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T416	2851	CCTGCTGTTGAGCAGGTCTCTCTCTTTCAATGCTTCACCAGGGGCA	2900
AL137471	1198		1247
T416	2901		2950
AL137471	1248		1297
T416	2951	GATATGCCCTTCAAGACATGGACAAATTTAGCTTGAAAGACAGTGGCCGT	3000
AL137471	1298		1347
T416	3001		3050
AL137471	1348	GGTGACAGTGAGGCAGGAGACAGTGATTATGATTTGGGGGGGG	1397
T416	3051		3100
AL137471	1398	AATAGATAGGCTGTTGGGTGAAGGATTCAGCGACCTGTTTCTCACAGATG	1447
T416	3101	GAAGAATTCCAGCAGCTATGAGACTCTGCACGGAGGAGTGCAGGGTCCTG	3150
AL137471	1448		1497

FIG. 4E

T416	3151		3200
AL137471	1498		1547
T416	3201		3250
AL137471	1548		1597
T416	3251	AGCAGCAGCATCCACATCAGAGTCTTGAGGATGACGCTCAGCCTGCAGAT	3300
AL137471	1598		1647
T416	3301		3350
AL137471	1648		1697
T416	3351		3400
AL137471	1698		1747
T416	3401		3450
AL137471	1748		1797

FIG. 4F

T416	3451		350
AL137471	1798		184
T416	3501		355
AL137471	1848	GCCAGCCAAAACTGTGGGTTACCCACAGGGGGTAGCGGCATGGGCAGCCA	189
T416	3551		360
AL137471	1898	GTACGCATTTTCAAAATCCCACCACCAACTGTGGGCCGCCACTTGGAACT	194
T416	3601		365
AL137471	1948	CACTCCAGTGTGCAGCCTTCTTCAAAATGGCTGCCAGCCA	199,
T416	3651		370
AL137471	1998	CCCTGAAAATTATGAGGAAGATGATTTTGACAATGTGCTCAACCACCTCA	204
T416	3701		375(
AL137471	2048	ATGATGGGAAACACGAACTCATGGATGCCAGTGAACTGGTGGCAGAGATT	209

FIG. 4G

	IIV JII		
2338	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2298	AL137471
4000	TGTGATTATTTTAATCTGTATTTTAAAATACATTTGTACCTTATATTTA	3951	T416
2297		2248	AL137471
3950	TGTGTATATTGAATATTAAATACTGTATTTCGTATGTACAATGCAAG	3901	T416
2247	CCCTGAAAGAACTGGCATTGCCAAATAGTTGCATTTATCATAAATGTGTC	2198	AL137471
3900	CCCTGAAAGAACTGGCATTGCCAAATAGTTGCATTTATCATAAATGTGTC	3851	T416
2197		2148	AL137471
3850	TTTTTGTTTCCATGTATAGGAAATAGGGAACAACAACAACAACAAAAAA	3801	T416
2147	AACAAACTGCTTCAAGATGTCCGCCAGAGCTAGGAGATTTTAGCGAAGCA	2098	AL137471
3800	. AACAAACTGCTTCAAGATGTCCGCCAGAGCTAGGAGATTTTAGCGAAGCA	3751	T416

FIG. 4H

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T416	1 ATGCACCAAATG AATGCTAAAATGCACTTTAGGTTTGTTTTGCA	4.5
m-PC		2(
T416 m-PC	46 CTTCTGATAGTATCTTTCAACCACGATGTACTGGGCAAGAATTTGAA 	9 9
T416 m-PC	93 ATACAGGATTTATGAGGAACAGAGGGTTGGATCAGTAATTGCAAGACTAT 	142 148
T416 m-PC	143 CAGAGGATGTGTGTTTTATTGAAGCTTCCTAATCCTTCTACTGTT	192
T416 m-PC	193 CGATTTCGAGCCATGCAGAGGGGAAATTCTCCTCCTCTTGTAGTAAACGA 194 CCTTCCAGATTC.TGCAGCTGCCTCAGGCACTGCCGGTTCAGATGAACTC 2	242

FIG. 5A

T416	243 GGATAATGGGGAAATCAGCATAGGGGCTACAATTGACCGTGAACAACTGT	292
m-PC		292
T416 m-PC	. 293 GCCAGAAAACTTGAACTGTTCCATAGAGTTTGATGTGATCACTCTACCC	342 336
T416 m-PC	343 ACA.GAGCATCTGCAGCTTTTCCATATTGAAGTTGAAGTGCTGGATATTA 	391 385
T416 m-PC	392 ATGACAATTĊTCCCCAGTTŤTCAAGATCTĊTCATACCTAŤTGAGATATCT 	441 435
T416 m-PC	. 442 GAGAGTGCAGTTGGGACTCGCATTCCCCTGGACAGTGCATTTGATCC	491

FIG. 5B

T416	492	AGATGTTGGGAAAATTCCCTCCACACATÀCTCGCTCTCTGCCAATGATT	541
m-PC	486		535
T416	542	TTTTAATATCGAGGTTCGGACCAGGACTGATGGAGCCAAGTATGCAGAA	591
m-PC∴	536		585
r416	592	CTCATAGTGGTCAGAGTTAGATCGGGAGCTGAAGTCAAGCTACGAGCT	641
m-PC	586		635
T416	642	TCAGCTCACTCAGAC.ATGGGAGTACCTCAGAGGTCTGGCTCATCC	690
m-PC	636		684
r416	691	ATACTAAAATAAGCATTTCAGACTCCAATGACAACAGCCCTGCTTTTGA	740
n-PC	685		734

FIG. 5C

T416 m-PC	741 GCAGCAATCTTATATACAACTCTTAGAAAACTCCCGGTTGGCACTT 7	790
T416 m-PC	791 TGCTCTTAGÀTCTGAATGCCACGGATCCAGATGAGGGCGCTAATGGGAAÀ 8 	840
T416 . m-PC	841 ATTGTATATTCCTTCAGCAĞTCATGTGTCTCCCAAAATTATGGAGACTTT 8 	890 884 4
T416 m-PC	891 TAAAATTGATTCTGAAAGAGGACATTTGACTCTTTTCAAGCAAG	940 934
T416 m-PC	941 ATGAAATCACAAATCCTATGAGATTGATGTTCAGGCTCAAGATTTGGGT 9 	990 984

FIG. 5D

r416 n-PC	6 991 CCAAATTCAATCCCAGCCCATTGCAAAATTATAATTAAGGTTGTGGATGT 1040 	ATGT 1040 ATGT 1034	
1416 1-PC	6 1041 TAATGACAATAAACTTAACATCAACCTCATGTCCCCTGGAAAAG 1090 	AAAG 1090 CTCC 1074	_
:416 n-PC	6 1091 AAGAAATATCTTATATTTTTGAAGGGATCCTATTGATACATTTGTTGCT 1140 	rgcr 1140 rgcc 1122	_
1416 1-PC	1141 TTGGTCAGAGTTCAGGACAAGGATTCTGGGCTGAATGGAGAATAGTTTG 	rrrg 1190 acrg 1172	
1416 1-PC	6 1191 TAAGCTTCATGGACATGGTCACTTTAAACTTCAGAAGACATATGAAA 1237 	saaa 1237 	

FIG. 5E

16 1238 ACAATTATTTAATCTTAATGCCACACTGGATAGAGAAAAGAGATCT 1287	1288 GAGTATAGTȚTGACTGTAAȚCGCTGAGGACAGGGGGACACCCAGTCTC 1335	1336 TCTACAGTGAAACATTTTACAGTTCAAATCAATGATATCAATGACAATCC 1385	1386 ACCCCACTTCCAGAGAAGCCGATATGAATTTGTAATTTCAGAAAATAACT 1435	6 1436 CACCAGGGGCATATATCACCACTGTTACAGCCACAGATCCTGATCTTGGA 1485	FIG. 5F
r416	r416	r416	1416	1416	
n-PC	n-PC	n-PC	1-PC	1-PC	

FIG. 5F

T416	1486	GAAAATGGGCAAGTGACATACACCATCTTGGA.GAGTTTTATTCT.AGGA 1533
m-PC	1471	AGTAATGGAAAAGTGTCATACCGTATCAAGGACTCCCCCGTTTCTCACTT 1520
T416	1534	AGTICCATAACTACATATGIAACCATIGACCCATCIAATGGAGCCAT 1580
m-PC	1521	AGT. CATTATTGACTTTGAAACAGGAGAGTCACTGCTCAGAGGTCACT 1568
T416	1581	CTATGCCCTCAGAATCTTTGATCATGA.AGAAGTGAGTC 1618
m-PC	1569	GGACTATGAACAGATGGCAGGCTTTGAGTTCCAGGTGATAGCAGAG.GAC 1617
T416	1619	AGATCAC.TTTTGTGGTAGAAGCAAGAGGAGGAAGCCCGAAGCAACT 1667
m-PC	1618	AGAGGGCAACCCCAGCTCGCATCCAG.CATCTCGGTGGGGTTAGCCTCT 1666
T416	1668	GGTAAGCAATACCACAGTTGTG.CTCACCATCATTGAC 1704
m-PC	1667	

FIG. 5G

T416 m-PC	1705	GAAAATGACACGTTCCTGTGGTTATA	36
T416 m-PC	1737	TGCATTGCGTAAT.ATACGGCAGAATCACCATTC 1771	71
T416	1772	ccaaagg.ggctgaaagtgg.cttt.catgtcacaagaataagg 1812	12
m-PC			66
T416	1813	GCAATTGACAGAGACTCTGGTGTGAATGCTGAACTCAGCTGCGCCATAGT 1862	62
m-PC		.	16
T416	1863	AGCAGGTAATGAGGAGAATATCTTCATAATTGATCCACGATCATGTGACA 1912	12
m-PC			64

FIG. 5H

1913 TCCATACCAACGTTAGC.ATGGATTCTGTTCCCTACACAGAATGGG 1957 	1958 AGCTGTCAGTTATCATTCAGGACAAAGGCAATCCTCAGCTACATACCAAA 2007 	2008 GTCCTTCTGAAGTGCATGATCTTTGAATATGCAGAGTCGGTGACAAGTAC 2057 	2058 AGCAATGACTTCAGTAAGCCAGGCATCCTTGGATGTCTCCATGA.TAATA 2106 	2107 ATTATTCCTTAGGAGCAATTTGTGCAGTGTTGCTGGTTATTATGGTGCT 2156	FIG. 5I
T416	T416	T416	T416	T416	
m-PC	m-PC	m-PC	m-PC	m-PC	

FIG. 51

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FIG. 5J

FIG. 5K

T416	2608 TTGAAAGACAGTGGCCGTGGTGACAGTGAGGCAGGAGACAG.TGATTA 2654
m-PC	2697 CCCACAGAGCCCACCAGCGTCCTCTGCAACCCTAAGACGACAGCGGAATT 2746
T416	2655 TGATTTGGGGCGAGATTCTCCAATA.GATAGGCTGCTGGGTGAAGGATTC 2703'
m-PC	2747 TCAAT. GGCAAAGTGTCTCCTAGAGGAGAGTCCGGTCCTCATCAGATTC 2794
T416	2704 . AGCGACCTGTTTCTCACAGATGGAAGAATTCCAGCAGCTATGAGA 2748
m-PC	2795 TGAGGAGCCTGGTTAGGCTCTCTG.TGGCTGCTTTTGCGGAACGGAA 2840
T416	2749 CTCTGCACGAGGAG. TGCAGGGTCCTGGGACACTCTGACCAGTGCTGG 2796
m-PC	2841 CCCGGTGGAGGAGCCTGCTGGGGACTCTCCTCCTGTCCAGCAAATC 2886
T416	2797 ATGCCACCACTGCCTCACCGTCTTCTGATTATAGGAGTAACATGT 2842
m-PC	2887 TCCCAGCTGCTGCTGCACCAGGGCCAATTCCAGCCCAAACCAAA 2936

FIG. 5L

T416	2843 T	TCATTCCAGGGGAAGAATTCCCAACGCAACCCCAGCAGCAGCATC	2887
m-PC	2937 C	999	2984
T416	2888 .	. cacatcagagtc.ttgaggatgacgctcagcctgcagaitccggtgaaa 2933	2935
m-PC	2985 T		3032
7416	2936 A	agaagaagagttttccacctttggaaaggactccccaaacgatgaggac ;	2985
m-PC	3033 A		3074
r416	2986 A	actggggatáccagcacatc.atctctgctctcggaaatgagcagtgtgt 3034	3034
m-PC	3075 .		
7416 m-PC	3035 T 3122 T	TCCAGCGTCTCTTACCGCCTTCCCTGGACACCTATTCTGAATGCAGTG 3082	3082

FIG. 5M

3132 CAAAACTGTGGGTTACCCACAGGGGTAGCGGCATGGGCAGCAGTACGC 3181	17 67 13 68	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	н м н н м н м н
1416 3083 AGGTGGATCG.GTCCAACTCCCTGGAGCGCAGGAAGGGACCCTTGCCAGC 3131	\sim	37	\leftarrow

FIG. 5N

)

3323 TCAATGATGGAAACACGAACTCATGGATGCCAGTGA3359 3412 GCTTTGCGGAGGAGGACCCTCAGTCTAGACCTAGC 3461	3360ACTGGTGGCAGAGATTAACAAACTGCTTCAAGATGTCCGC.C 3400 	3401 AGAGC
T416	T416	T416
m-PC	m-PC	m-PC

FIG. 50

n-PC	н	1 MMLLLPFLLGLLGPGSYLFISGDCQEVATVMVKFQVTEEVPSGTVIGKLS	50
416	. -I	. MHQMNAKMHFRFVFALLIVSFN . HDVLGKNLKYKIYEEQKVGSVIAKLS	4, X
I-PC	51 (QELR. VEERRGKAGDAFQILQLPQALPVQMNSEDGLLSTSSRLDREKLC	98
1416	49 E	::	8
- PC	99	RQEDPCLVSFDVLATGASALIHVEIQVLDINDHQPQFPKDEQELEISE	146
416	.0 66	: :	148
-PC	147 9	SASLHTRIPLDRALDQDTGPNSLYSYSLSPSEHFALDVIVGPDETKHAEL	196
416	149	SAAVGTRIPLDSAFDPDVGENSLHTYSLSANDFFNIEVRTRTDGAKYAEL	198
I-PC	197	VVVKELDRELHSYFDLVLTAYDNGNPPKSGISVVKVNVLDSNDNSPVFAE	246
1416	199	: : :: :: ::	248

.

FIG. 6A

n-PC	247	247 SSLALEIPEDTVPGTLLINLTATDPDQGPNGEVEFFFGKHVSPEVMNTFG	296
r416	249	QSYIIQLLENSPVGTLLLDLNATDPDEGANGKIVYSFSSHVSPKIMETFK	298
JG-u	297	IDAKTGQIILRQALDYEKNPAYEVDVQARDLGPNSIPGHCKVLIKVLDVN	346
r416	299		348
n-PC	347 1	. DNAPSILITWASQTSLVSEDLPRDSFIALVSANDLDSGNNGLVHCW	392
r416	349		398
n-PC	393	3 LNQELGHFRLKRTNGNTYMLLTNATLDREQWPIYTLTVFAQDQGPQPLSA	442
1416	399	. 	447
n-PC	443		492
1416	448	VKHFTVQINDINDNPPHFQRSRYEFVISENNSPGAYITTVTATDPDLGEN	497

FIG. 6B

537	547	586	597	636	618	989	667	733	717
GKVSYRIKDSPVSHLVIIDFETGEVTAQRSLDYEQMAGFEFQVIA	· · : :	EDRGOP. QLASSISVWVSLLDANDNAPEVIQPVLSEGKATLSVLVNASTG	RDGGSPKQLVSNTTVVLTIIDENDNVPVVIGPALRNNTAEITIPKGAESG	HLLLPIENPSGMDPAGTGIPPKATHSPWSFLLLTIVARDADSGANGELFY	FHVTRIRAIDRDSGVNAELSC	SIQSGNDAHLFFLSPSLGQLFINVTNASSLIGSQWDLGIVVEDQGSPSLQ	· · · ··· · AIVAGNEENIFIIDPRSCDIHTNV.SMDSVPYTEWELSVIIQDKGNPQLH	TQVSLKVVFVTSVDHLRDSAHEPGVLSTPALALICLAVLLAIFGLLL	· · · · · · · · · · · · · ·
493	498	538	548	587	598	637	619	687	899
m-PC	T416	m-PC	T416	m-PC	T416	m-PC	T416	m-PC	T416

FIG. 6C

n-PC r416	734 ALFVSICRTERKDNRAYNCREAESSYRHQPKRPQKHIQKADIHLVPVLRA . : .	783
n-PC	784 HENETDEVR. PSHKDTSKETLMEAGWDSCLEAPFHLTPTLYRTLRNQGN	831
r416	: 	817
n-PC	832 QGELAESQEVLQDTFNFLFNHPRQRNASRENLNLPESPPAVRQPLLRPLK	881
r416		867
n-PC	882 VPGSPIARATGDQDKEEAPQSPPASSATLRRQRNFNGKVSPRGESGPHQI	931
r416	: .	913
n-PC :416	932 LRSLVRLSVAAFAERNPVEEPAGDSPPVQQISQLLSLLHQGQFQPKPNHR	981 963

FIG. 6D

m-PC	982	GNKYLAKPGGSSRGTIPDTEGLVGL.KPSGQAEPDLEEGPPSPEEDLSVK 1030
T416	964	HOSLEDDAQPADSGEKKKSFSTFGKDSPNDEDTGDTSTSSLLSEMSSVFQ 1013
m-PC	1031	RLLEBELSSLLDPNTGLALDKLSPPDPAWMARLSLPLTTNYRDNLSS 1077
T416	1014	RLLPPSLDTYSECSEVDRSNSLERRKGPLPAKTVGYPQGVAAWAASTHFQ 1063
m-PC	1078	PDAȚTSEEPRTFQTFGKTVGPGPELSPTGTRLASTFVSEMSSLLEMLLGO 1127
T416	1064	NPTTNCGPPLGTHSSVQPSSKWLPAMEEIPENYEEDDFDNVLNHLND 1110
m-PC	1128	HTVPVEAASAALRRLSVCGRTLSLDLATSGASASEAQGRKKAAESRLGCGRNL 1180
T416	1111	GKHELMDASELVAEINKLLQDVRQS

FIG. 6E

60 120 172	220	268	316	364	412	460	508
ω	24	40	56	72	& &	104	120
CACTCTTTA CACTCGGCGA GCC TCC Ala Ser	$\texttt{GGT}\\ \texttt{G1} Y$	CTG	CTC	TTT Phe	GCA Ala	GAC	TAC
CAACT CACT(GCC T	GAA Glu	CCC	CCC	ACG Thr	GAG Glu	GGG Gly	GAG Glu
	ACC Thr	ACA Thr	CAA Gln	CTG	CAA Gln	AGT Ser	GGA Gly
GTGTCTCCGT CGCCTGCTCC GG GCT GCC .rg Ala Ala	ACG Thr	ATC Ile	TCC	AGT Ser	CAC His	AAG Lys	GCA Ala
AATCCCGGCT GTGTCTCCGT TCTACCGGGC CGCCTGCTCC G ACG TGG AGG GCT GCC	CTG	CAG Gln	TAT Tyr	AAG Lys	GAT Asp	CTG	GAA Glu
CGGCT CGGGC TGG A	GCG Ala	ACT Thr	TTT Phe	TGG Trp	GGA Gly	AGG Arg	GAG Glu
T TCTACCGGCT ATG ACG TGG Met Thr Trp	TGG Trp	GGG	ATC Ile	TTT Phe	TTT Phe	TGG Trp	CTG
GCCGGCTGGA AATCCC GCCCTTGGTT TCTACC CCGCGGCG ATG ACG Met Thr	CTG	GGG Gly	AAT Asn	TGG Trp	TTT Phe	CCA Pro	CAG Gln
GCCGGCTGGA GCCCTTGGTT CCGCGGCG AT	CTG	GCA Ala	TGC Cys	ACC Thr	GAA Glu	TCT Ser	ATC Ile
CCTT	ATT Ile	ATG Met	TTC Phe	ATC Ile	TTT Phe	GTG Val	GGA Gly
	CTG	ATG Met	ATA Ile	$\texttt{GGT}\\ \texttt{G1} \texttt{Y}$	GTC Val	ATT Ile	CCT
AAAAGC CCCCCT CAGCAG	CTC Leu	GAG Glu	ACC Thr	ATG Met	AAA Lys	GCC Ala	CTG Leu
GTGCAAAAGC GTCTCCCCCT ACAACAGCAG	GCG Ala	GTA Val	GTC Val	TCT Ser	GTC Val	GGA Gly	CGG Arg
	GCG Ala	AAA Lys	AAT Asn	ACG Thr	GAA Glu	CCT	CTG Leu
SAAGTGGGAT CGCAACAGAG AAAAATTAC	TGC Cys	CTG	GAC Asp	ATC Ile	AAA Lys	CGA Arg	TCA Ser
SAAC CGCZ AAAZ	ACG	SAT	AAT Asn	AAC Asn	3AC Asp	rrc	3CC Ala

Fig. 7A

007	604	652	700	748	796	844	892	940
Gln .	GTG Val	TTC Phe .	TTT Phe	ATC Ile 2	AAC Asn 2	CAT His 2	GCT Ala 2	CAT His 2
Val (CAA (Glu	GGG :	AAG 1	ACC 7	CTG /	CGG (Arg I	GCT (Ala 2	ATT (Ile 1
Thr	GAT Asp	AGT Ser	CAG Gln	CCC Pro	AAG Lys	GTA Val	ACT Thr	TCC
G1Y	CTG	TCA Ser	ACC Thr	GGT Gly	TTG Leu	GTG Val	CTG	TTT Phe
Gln	TTG Leu	GAG Glu	CAG Gln	ACT Thr	TGC Cys	TGT Cys	ACC Thr	AAT Asn
Ala	TTG	TGT Cys	AAG ${ m L}{ m ys}$	ATC Ile	AGC Ser	CAG Gln	TTT Phe	GAT Asp
Lys	AGA Arg	ATG Met	GAG Glu	GTC Val	ACT Thr	\mathtt{TAC}	AAC Asn	ACA Thr
Leu	AGC Ser	TAT Tyr	TGG Trp	GAT Asp	GTC Val	GTC Val	AGC Ser	AAG Lys
Pro	GCC Ala	AAA Lys	ACA Thr	GAG Glu	AAT Asn	ACT Thr	AGG Arg	GAG Glu
Thr	CCA	GAC Asp	ATA Ile	TCT	TTT Phe	GGG G1y	TTG	ACT Thr
Val	TCC	GAA Glu	AAT Asn	ATT Ile	ACA Thr	CCT	CCC Pro	GAA Glu
Val	GCT Ala	AAT Asn	ATT Ile	GAG Glu	GGC Gly	GAC Asp	ACC Thr	TCT Ser
Val	GTG Val	GAG Glu	GCT Ala	ATA Ile	GAT Asp	GAA Glu	CAT His	CTT Leu
Glu	GTT Val	AAA Lys	GAG Glu	CCC	ATG Met	CAG Gln	TTG Leu	AGT Ser
Cys	GAA Glu	ATG Met	CCA Pro	CAT His	AAT Asn	TCT	TCC	CAC His
Arg	CTT	3GC 31Y	PAC Pyr	CCC	AAG Jys	rcc ser	3CG Ala	3GG Arg

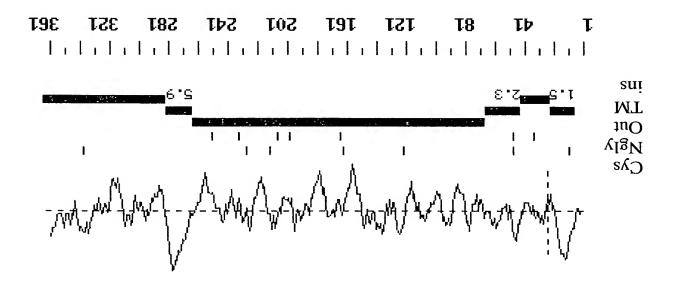
988	1036 296	1084 312	1132 328	1180 344	1228 360	1283 365	1343 1403 1463 1523
TGG TGG CCT ATT TCA TTC ATT GGT GTT GGA CTG GTT TTA TTA ATT GTT Trp Trp Pro Ile Ser Phe Ile Gly Val Gly Leu Val Leu Leu Ile Val	TTG ATT CCT TGG AAA AAG GTA AGG GGC TCC AAA GCA AAG TTC AGC CCT Leu Ile Pro Trp Lys Lys Val Arg Gly Ser Lys Ala Lys Phe Ser Pro '	GTG TCT TGG GCT AGT AAA AAG CTT TTA GAG CAG CTG CTG CCA ACC TTA Val Ser Trp Ala Ser Lys Lys Leu Leu Glu Gln Leu Leu Pro Thr Leu	CAA GCC TCA AGG GAC AGG CCT GCT GGA AAG GAC TTT GTC AGT CCC TCT Gln Ala Ser Arg Asp Arg Pro Ala Gly Lys Asp Phe Val Ser Pro Ser	TCA CCA TCA GGT GTT GGG AAT GTT GGC TGT GTT CCA ATC CAG TTT CCT Ser Pro Ser Gly Val Gly Asn Val Gly Cys Val Pro Ile Gln Phe Pro	ATC ACA GAG GAC CTA GCT GTC ACA TAC CAT CTG ACC TCT GTA TGG TGG Ile Thr Glu Asp Leu Ala Val Thr Tyr His Leu Thr Ser Val Trp Trp (TTT GTG ACT CTG GGG TGATGTGTTG TAAAGCCTCC CTCTCTTTCT CCATACTAAA Phe Val Thr Leu Gly	CAAGTATTAT ATCTCTGTGA ATGAACCAGA CTTTAGTGTT CAGACCAGGC CCTGAACTAT GTGTGGACTA CTTGTTTTTT TO TCACACTTT AGAAACTATG GCTTAGAGAG GGGAATTCCT CATATTTTAT CTGATCAATA ACTGACCACC AGATCTCACT AGTTTGACTA AGAATTTCTA ACCCTCACTA GGAATTTCTA

.

1583 1643 1703	1763 1823	1883	1943	2003	2063	2123	2183	2243	2303	2330
TGTAAATGTG CTGTCAAGGC TGGAATAATC	CGGGACTTAT TGTTTCTTGT	CAGGTGCTAT	CTCAGTCAAA	CTTGTACAGG	ACAGGAGACT	TAAGGGGAAC	ATGGGGTGGA	ACCCTCTTTT	CACTTCAACT	
GCCCAAATAG TAAATAAAC AGCTCAAGCT TTAGAGGCCC AAGAGACCTA TGTAAATGTG TTGGTTAAAA TAGTTTTAGA TAATAAAAGG GCCCTCAATT ATTTATGGGC CTGTCAAGGC AAAATCTGCA CAACAGCCAG TACATCTCAT TATAAATAAT TTAGGAGAAG TGGAATAATC		TTCTGATATT CAGGTGCTAT	AGGGTGGGCC	TTCCTTCAAA CAAAAGAACA GCCTGAAAAA TCAAACTGCA GATAAGGGAA CTTGTACAGG	ATACATTAAA ACAAGGCTAC	ATCCCCTGAC ACATGCACAG	CTTGCATGCA CACTACGAGG ATGGGGTGGA	TGAAATGGCA	TCTTTTGCTT ATTAAACTTT	
TTAGAGGCCC GCCCTCAATT TATAAATAAT	AAGTTGGCCA GATAAAAAGT	CTTTCTCTGG	GCAGGCAGTT	TCAAACTGCA		ATCCCCTGAC	CTTGCATGCA	TATTCAGCTG	TCTTTTGCTT	
AGCTCAAGCT TAATAAAAGG TACATCTCAT	CCTTTATCTA GAGAAAACTG	TATTTCTTGC	AACTAGTCAG	GCCTGAAAAA	CCACAGCCAC	AGAAAATTCC	AAGCTAAGGG	TATGCCTTTG	AGTGCTTTCT	AAAAAA
GCCCAAATAG TAAATAAAAC AGCTCAAGCT TTGGTTAAAA TAGTTTTAGA TAATAAAAGG AAAATCTGCA CAACAGCCAG TACATCTCAT	AGTCAATTAA GAAAAATGGC CCTTTATCTA AAGTTGGCCA TCCTGTTGGA TCTAGGCCAT GAGAAAACTG GATAAAAAGT	GGTATTTGTG ACTGTTGTCA	TGAGAGGA GGAAGGAAGA AACTAGTCAG	CAAAAGAACA	GGGGCTTGCC TAAAACATGC CCACAGCCAC	TGCCTAGACA TGCTCACAAT AGAAAATTCC	AAAGCCACAT GGAGTAACTC AAGCTAAGGG	GCTACCAGAA ATGTGTGCCT	GGGCCCCCTC TCTGCAGTGG	TCAAAAAAA AAAAAAAAA AAAAAA
GCCCAAATAG TTGGTTAAAA AAAATCTGCA	AGTCAATTAA TCCTGTTGGA	GGTATTTGTG	TGAGAGAGGA	TTCCTTCAAA	GGGGCTTGCC	TGCCTAGACA	AAAGCCACAT	GCTACCAGAA	GGGCCCCCTC	TCAAAAAAA

Fig. 7D

8 .giH



2246	121136	2186	121196	2126	121256	2066	121316	2006	121376	1946	121436
CTCCACTGCA GAGAGGGGC	_	TAAGGCACAC ATTTCTGGTA	-	TTGAGTTACT CCATGTGGCT	_	CTATTGTGAG CATGTCTAGG		- E		GCTGTTCTTT TGTTTGAAGG	GCTGTTCTTT TGTTTGAAGG
GAAGAAAGCA	GAAGAAAGCA	TACAAAGGCA	TACAAAGGCA	AGCCCTTAGC	AGCCCTTAGC	ATGGAATTTT	ATGGAATTTT	ATGTGGCTGT	ATGTGGCTGT	GATTTTTCAG	GATTTTTCAG
rta ataagcaaaa	•	٠.	III	RAG TGTGCATGCA	_	_		_	 YTT GTTTTAATGT	F -	 TA TCTGCAGTTT
GAAGTTGAAG TGAAAGTTTA		CCAAAAGAGG GTTGCCATTT	CCAAAAGAGG GTTGCCATTI	GCTCCACCC ATCCTCG	GCTCCACCC ATCCTCGTAG	TTGTTCCCCT TACTGTGCAT	TIGTICCCCT TACTGIGCAT	CAAGTCTCCT GTGTAGCCTT	CAAGTCTCCT GTGTAGCCTT	CCCCTGTACA AGTTCCC	CCCCTGTACA AGTTCCCTTA

Fig. 9A

1886	· (1)	121556	1766	121616	1706	121676	1646	121736	1586	121796
AGGGCCCACC CTAACTGCCT GCCTGACTAG TTTCTTCCTT CCTCCTCTCT	TGAATATCAG AACCAGAGAA AGGCAAGAAA TATGACAACA GTCACAAATA	21	CCACTTTTTA TCCAGTTTTC TCATGGCCTA GATCCAACAG		AATGGCCAAC TTTAGATAAA GGGCCATTTT TCTTAATTGA	TCTTAATTGA 121	CCT AAATTATTTA TAATGAGATG TACTGGCTGT TGTGCAGATT		ATAATTGAGG GCCCTTTTAT TATCTAAAAC TATTTTAACC	TATTTAACC
AATTTGACTG	CAATAGCACC	CAATAGCACC	CCACAAGAAA	CCACAAGAAA	GAATAAGTCC	GAATAAGTCC	CTGATTATTC		TTGCCTTGAC	TTGCCTTGAC

Fig. 9B

1526	121856	1466	121916	1406	121976	1346	122036	1286	122096	1226	122156		
CIGITITATT TACTATITGG	rtrtatt tactatrigg	TTTAGAAATA CCTAGTGAGG		ATTGATC AGATAAAATA		GAGAAAAACA AGCAGTCCAC		ATTCACAGAG ATATAATACT	CACAGAG ATATAATACT				
AAAGCTTGAG CTG1	AAAGCTTGAG CTGT	CATGTTTTAG TTT?	CATGTTTTAG TTTZ	CTGGTGGTCA GTTZ	CTGGTGGTCA GTTZ		CTAAATGTGT GAG	AGTCTGGTTC ATTC	AGTCTGGTTC ATT		TACAACACAT CACC	Fig. 9C	
TTGGGCCTCT	TTGGGCCTCT	TGTTTAGAAA	 TGTTTAGAAA	CTAGTGAGAT	CTAGTGAGAT	GCCATAGTTT		TGAACACTAA	TGAACACTAA	AGGGAGGCTT	AGGGAGGCTT		
CATAGGTCTC	CATAGGTCTC	GGGATAAAA	 GGGATAAAAA	CTTAGTCAAA	CTTAGTCAAA	CCCTCTCTAA	CCCTCTCTAA	GGGCCTGGTC	GGGCCTGGTC	GGAGAAGAG	GGAGAAAGAG		
AACACATTTA	AACACATTTA	GCCATAGTCA	GCCATAGTCA	GTTAGAAATT	GTTAGAAATT	TGAGGAATTC	TGAGGAATTC	ACATAGTTCA	ACATAGTTCA	TGTTTAGTAT	 TGTTTAGTAT		

Fig. 9C

1166	122216	1106	122276	1046	122336	986	122396	926	122456	904	122478
TAGGTCCTCT GTGATAGGAA ACTGGATTGG		CTGACAAAGT		CAGCAGCTGC TCTAAAAGCT TTTTACTAGC	TCTAAAAGCT	GCCCCTTACC TTTTCCAAG GAATCAAAAC	TTTTCCAAG	TGAAATAGGC CACCAATGAA TGGAAAAATT	CACCAATGAA		
CCATACAGAG GTCAGATGGT ATGTGACAGC TAG	GTCAGATGGT ATGTGACAGC	ACATTCCCAA CACCTGATGG	CACCTGATGG	CTTGAGGCTT GTAAGGTTGG		CCAAGACACA GGGCTGAACT TTGCTTTGGA GCC	GGGCTGAACT TTGCTTTGGA	CCAA CACCAATGAA		ATCTGTCTTC TCAGTTTCAG AA	 TCAGTI

Fig. 9D

42 2 22 137 82 317 62 257 102 122 437 142 L TTG G GGA TACC V GTG YTAC L CTG L TTG GGT ATG A GCT $_{\rm TGT}^{\rm C}$ TACC I ATT F TTC R CGG LCIC Ξ GGCCCGGGCAGCTGCGGCTCCGGGATCCGTCGAGGGGAGGCCGAGCTTGCCAAGCTGGCGCCCAGCGGGGTC CTG д 96С ი მვმ CIG CIC E GAA 9 960 ы CTC D GAT CCC R AGA L CTT K AAA S TCT ᆸ Д GGC G GGT Y TAT K AAA Y TAT P I ATT G AAT CGG L CTG GGG D GAC H CAC VGTT Ö 吆 z GGG GAG K AAG K AAG S TCT TACT S TCC 臼 ᠐ A GCC E GAG S TCT P CCA A GCT MATG G A GCT $_{\rm TGT}^{\rm C}$ S AGT A GCG T ACA V GTA ഗ R CGG TACC Q CAG MATG T ACA GGA G 闰 GCG r CTG I ATT Q CAG TACA CFTT ø L CTG R CGG 9 99 90 TAC ACA S TCC × E ഷ GCA CFC S AGT AAG E GAA CCA > ď × Д GGC PCCG GAT GAA I ATC TACC GGT Д Ö 闰 ഗ д GGC Q CAG D GAT TAT A GCC C TGC \Rightarrow > 960 s TCC Y TAT GTT L TTG Q CAA G > 臼 R CGC V GTC TACT TACT D GAT D GAT S AGT g_{CC} A GCG GTG CAC GGA S TCA ď > 王 ഗ ₽ 960 LCIC L CTA AAT TTG S TCT ഗ H Z Z CC CC CC r CTG H CC CC CC R AGG S AGC ᄓ

Fig.

GGA

AGT

GAG

CGC

GTA

GAA

ACA

AAC

ITG

197

162 557 282 917 182 617 202 222 737 242 797 262 857 302 A GCA A GCT R S TCC g GGC A GCT E GAA Q CAA Q CAG D GAC S TCG R CGA V GTA K AAA G GGT F TTT E GAA D GAC D GAT S AGT n TgC L GGA A GCT r Trg R AGG R AGA L ITG V GTG L ITG IGG S AGT 3 $C\\ \overrightarrow{1}\overrightarrow{G}\overrightarrow{1}$ L TTA S TCG CS AGT S TCC E GAG S TCA I ATC TACA S TCT L R AGA N AAT PCCA G GGT Q CAG I ATA TACC S AGC A GCT V GTC 9 9 9 0 V GTT L TTA D GAT . 96С PCCA C TGC S TCG GGT Q CAA D GAT N AAT D GAC ာ TgC R AGA G GGT GGT Q CAG P CCA Y TAT A GCC WQ CAG FTTC L CTA N AAT H CAT K AAA G GGA E GAA L CTG S TCC S TCA L CTT D GAC S AGC D GAT D GAT I ATT T ACC S TCC R CGA S AGC Y TAC GGGV GTA A GCT A GCC F TTT S TCT Ç S AGC E GAA M ATG I ATT E GAA LCTG GCT Q CAA Ø A GCG TACA N AAT I ATA Y TAT FTT R AGA 9 9 9 TAT K AAG G GG G G GGA IATC R CGA R PCCT \succ TACC Γ A GCA K AAG S TCT S AGT CAA S TCT Ŏ r CTG YTAT H CAT GAC I ATT I ATC GGG W TGG \Box Ŋ L TTG H CAT D GAC IATC G GGG S TCA GAC H Ω S AGC 900. F GGA K AAA L CTG V GTT CCT

Fig. 10B

322 1037 362 1157 382 422 1337 442 1397 462 1457 402 342 AAG K AAG V GTG N AAT R AGG V GTG TACA PCCA X I ATT K AAA N AAC Q CAG $_{
m L}$ V GTT I ATC I ATT E GAG Y TAT G GGA Q CAA H A GCT S TCA TACA GGG K AAA V GTG W TGG E GAG FTTTD GAT V GTG G Γ N AAC $\overset{Y}{\text{TAT}}$ P CCA T ACA TACG N AAT D GAT GAT F TTC TACC D GAC Q CAG G GGT E GAA Д H ATC K AAG N AAC R CGG I ATT PCCC Q CAA K AAA Н GAG S TCG W TGG F TTT V GTC TACA K AAG AAC 臼 z I ATT L Q CAG K AAG N AAC TACT I ATA VGTT W TGG R CGG Q CAG GGA T ACA S TCT S TCT S TCA Q GAG S TCT N AAT N AAC VGTG C TGC TACA V GTT 闰 R CGA G GGA N AAT G GGT YTAT G GGT S S AGT P CCA TACA N AAC Q CAG R AGA I ATT TACC TACA AAA TACC K AAA F TTT A GCC S AGC GAA CTC × 臼 H R AGG F TTC V GTG VGTG E GAG Q CAA EAA N AAC I ATT N ÄAC K AAG IATC V GTG S AGT S TCG AAC G GGA MATG E GAA PCCC K AAG ACA CCC Z Н AGC TACA V GTG E GAA P CCT Γ K AAG I ATC AGT I ATA \hat{F} TTT AAT I ATC A GCC RCGC CCC ഗ Z Д D GAC K AAA S AGT N AAT F W R AGG IATA

Fig. 10C

542 1697 562 1757 582 1817 522 1637 602 1877 482 502 1577 622 K AAG K AAG N AAT Q CAG D GAC Q CAG TACG RCGC R AGA \overline{W} D GAT Q CAG M ATG P A GCC Y TAC F TTT $^{\rm C}$ Y TAT Y TAC PCCC $_{\rm TAC}^{\rm Y}$ C TGC G G G A GCC D GAC S AGC D GAT R D GAC E GAG S AGC A GCA T ACA I ATC A GCA FTTC \mathbf{Y} \mathbf{TAT} P Q CAG K AAA TACC M ATG F TTT TACC H E GAG A GCG I Q CAG F TTT D GAT S TCC д 960 P S TCT ი მმმ A GCT E GAG S AGT GGC GGC P F M ATG E GAG A GCT TACA K AAG A GCC A GCG T ACG GGA I ATC R AGG A GCA S TCA D GAT LCTG H Q A GCT S TCA Q CAG L TACG TACC A GCC P F TTT GGA H CAT D GAT V GTC S AGC L CTG R V GTG Y TAT R AGA L TTA TACA V GTG A GCG L L CTG P A GCC K AAG G GGG G GGG Y TAC V GTG V GTC S AGT F TTT Q CAA TACC A GCA E H V GTT GGA PCCC G GGC T ACA E GAG H R CGG L CTT K AAA Y TAT M ATG I ATT E GAG E GAG RCGC CTC K AAG E GAG K AAA M ATG A GCC V GTG GGC V GTG K AAG K AAG I ATT L D GAT A GCC I ATC L TTG K AAG Q CAG EGAG PCCC T ACG R CGG PCCC

Fig. 10D

642	662	682	702	715
1997	2057	2117	2177	2219
V	D	D	C	
GTA	GAC	GAC	TGC	
CCC	A GCG	PCCT	D GAC	
S TCC	P CCT	H CAC	R AGA	
F	Q CAG	G GGA	CCC	
ტ	A	S	A	
ე	GCA	AGC	GCC	
ტ	S	E	S	
ტტ	AGC	GAA	TCT	
S	H	TACC	Y	*
TCG	CAC		TAT	TGA
S	P	A	S	L
TCC	CCA	GCC	AGC	TTG
L	R AGG	L	D GAC	L
S	Q	A	S	A
TCC	CAA	GCC	AGT	GCC
H	YTAT	S AGC	T ACG	TACT
K	D	V	ტ	M
AAA	GAC	GTC	ტტტ	ATG
H	G	A	PCCC	A
CAC	GGA	GCT		GCC
9 9 0 0	D GAC	K AAA	H CAT	TACG
CCC	Q	P	T	Q
	CAG	CCC	ACG	CAG
Q	A	R	P	N
CAG	GCC	CGG	CCA	AAC
CCC	9 9	D GAC	CCC	CTC
ტ ტ	V GTG	Υ TAC	K AAG	CCC
РССА	G	ა	Q	T
	GGT	ეტ	CAG	ACA
V	A	R	S	r
GTC	GCG	AGG	I'CT	CFC

2456 2535 2614 2377 2693 <u> ACACAATGTGAAAGAAGCCTGCTGTGGTACTGAGCGTCGGGCTGTCACAAGGCACTGGAAGAAGGGAGCCTGCTGGTCC</u> ATACTGTTTACAAAATTGTGCAGCTGGTTTCGTGCTGACCCTTAGGGTGCGTCTGTTGGGTTTTGTTGGGCTAGAAAA TGAAAATTTTTAGATGGCGTTTTCATTCCTCTGACTGATATTGACCTGCTTTTGGTGTTAAAGGTGTAATGTACAGAG TTGTATTTAACAATAATAAAAGTAACTTAAGTTTGCTCTATCAGATTTTAGTTCTGCACAGAGGTTAAGTGGGAAAATG CAGCTGTTGCAAAATGTATATAAATAGTATGTTCATTTTTTTCAGTATATTATTATCTGATACTGTTAGCAGCAGGTCTG CTTAAACCTAGTCTTGTTATTGAGTCATTTCCTCTCTCTTTGATAACTAGAACTGAAAGCATTTTTAACATTTTCTTCT

Fig. 10E

AAAACAAGCAAAGAAACAACACCTCAGCAGCTGCCCGTTTCCTTAGTCTCCACTTCAGAGGGGGGATGCGAAGAGGGTCGG 2930	930
CCCAGCTCCGGTGACCATGAAGGTGGCACAGGAATTACAGTGTGAATGGCTGTGTCAGATGTTTTCGTACCTCAGATTA 3009	3009
AAAATATTGCTGAGGTCAGACGCCACAATTTTCATGACTTTCTTCAGAAGTAGCACATTTTCGTGACTTCCGCTGTCTT 3088	3088
CTGAAAAACAAAGTTATTTGGAACATGTTCATGCAAAAGTGATTCTGACCAAGTCTAAATCGAGCTTTTCTACTGACAT 3167	3167
GAAACTGTTGGAAACTGATCTCATTTTATAAGAAATGATTTTTCCCCTCAAGGAGGCGTCTGTAATTCCAGAACAGTCCA 3246	3246
GACATCAGCTGTACCTCATGCTCAGTAGTTTTTATTTTGAGTTTTGTGTGAGTTAACTATGGGAGATTTAACCTCTTT 3325	322
TGCCAAAGAGGGAAGTGTGTGTTTTTTTTAATAGAAAATATGGACCAAAAATTTTTTTT	3404
CCCTATITIGIGITATIACATCCIGIGAAAIGIATAIAIATGITAAAATAGGGGGGGGGG	3483
AGCTGCTGGTTAGTGTGGAGGGGAAGTGGTTTACTTTGTAGAGTTTTACATGGTTTTATGCGCACACTAATTGTAATAAA 3562	3562
CTATGCCAAACCAAATAAAAAAAAAAAAAAAAAAAAAAA	3594

Fig. 10F

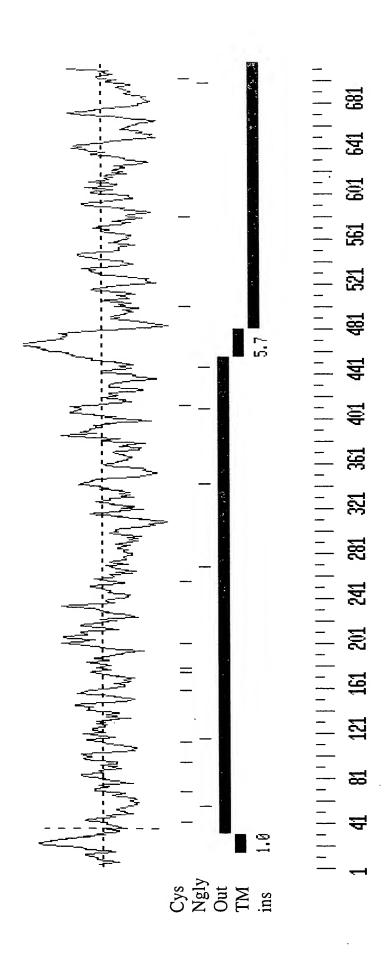


Fig. 10G

79 158	14 220	34 280	54 340	74 400	94 460	114 520	134 580
3GGC AGAG	z h	S AGT	S AGT	D GAC	E GAA	K AAA	H CAT
SACGO	V A GTG	K AAA	S AGC	K AAA	N AAT	E GAG	$^{ m Y}$
GGAGAGGGG	V GTA	N AAC	ტ ტტ	CCC	W TGG	P CCA	I ATT
ADTO!	V : GTG	F TTT	F TTT	C FGC	S TCT	T ACG	L TTA
AGAAGGAAGAACGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGC CACCAGGAAGACCCCCATCTGCAAGCAAGCCTAGCCT	I ATT	I ATT	I ATT	V GTC	S TCA	N AAC	9 99 0
SAGCZ SCCTZ	CTT	Q CAG		T ACA	E GAA	V GTC	I ATT
AAAG		P CCA	S TCA	G GGA	S TCT		F TTT
GCAA	STCT	F TTC	V GTC	$_{\rm TAT}^{\rm Y}$	T ACT	A GCA	Y TAT
TTGG	ATC	$_{\mathtt{TAT}}^{\mathtt{Y}}$	T ACA	S AGC	S TCC		
FTTGC	A ATC	L CTT	G GGA	R AGG	L TTA	T ACA	С В В
SAACG	H M CAC ATG	L CTA	$^{ m Y}$	T ACA	F TTC	S TCC	
SGAAG AGGAA		F TTT	S AGC	ACC	F TTT	G GGA	
AGAAC	W TGG	L TTA	R AGG	I ATT	Γ	K AAA	T ACT
STGAZ	N 3 AAC	TACC	T ACC	$_{ m TTC}$	R AGA	G GGA	I ATA
SACTC	M ATG	M ATG	TACC	ი ი	A GCA	K AAA	GAC GAC
STGAC	rcat(9 99	.ACC	N AAC	CAA	C TGC	F L Q D I THE CHE CAG GAC ATA
GAGGACACA	rccTJ	V GTT	F TTC	CCC	$_{\mathtt{TAT}}^{\mathtt{Y}}$	$rac{ ext{F}}{ ext{T'T'}}$	IJĘ
199CC	ZAGCI	V GTT	G GGT	S AGT	다.	D GAC	면다
GTGGTCGCGGCCGAGGTGAGACTGTGAAGAAGGAAGAACGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGAGGGGGC CCCTGCCTGCCACACCAAGCATTAGGCCACCAGGAAGACCCCCCATCTGCAAGCAA	GCCCCTGCAGCTCCTTCATC	K AAA	D GAT	PCCA	E GAA	R AGG	L K CTG AAG
GTG	פככנ	L CTT	N AAC	S TCC	W TGG	S AGC	ا آ م

Fig. 11A

154 640	174 700	188 745 824	903	1061 1140	1219	1298	1456	1535	1693	1772	1851	1930	0	2088
N AAT	S TCA	PTAC	SATG	ACTA	CTCT	31"I" 3AGC	IGAA	AGTA	CTA	3CAC	3AAG	rgct	ATAA	CTGT
T ACC	A T GCA T	PCTT	ACTG(IGTA(CCAT. ATAG(3AGG(AAGG(PTTC	LTTG.	rrgar	ATAA(ACTG(ACTC	ATGT.	ATGA(
GŢ.	A GC	rgatí		TATA(AAAC)	AGCA(AGCC.	CATA	AGGT.	CACA	CGGA	CCAC	CTAT	3ACC	AGTA
N AAT	D GAT	CCAA	ACTG(ICCG(AGAG' GGATZ	GGGTZ	SACA(AGGC)	rTGT(CTGA	GCAT(3GCA(l'TGG(rcag(3GAA(3CAC
g GGC	T F D 3 ACA TTT GAT	I C E K N A K * ATC TGT GAG AAT GCC AAA TGA TTGCAACTCTTTTTGAATCCATACAGGTCGTCTGGCCAATGATTCTTTTA	TTGCCCATTTGGGAAACTGAGCTTCTTTCTTCTGCACTGGGGGACTGGATTG TTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTAC	CTAGTCTGTTGACAGGGTTTGTTTTTATTTTAGCCTCAGAGTATACCATACTA TATAAACATTATTTAGGGATTACCATGGTGGAAGAGGGGATAAACATAGGTCC	3CGA(PACG(rccc	IGCT(ATTG(rggg(rcat.	3ACA	ATAA(rgta(
N AAT	T ACA	* TGA ICGT(ICTT(AGAT(rtag(rgga)	ACAA(GCAG(AAAT		ACTG.	IGGC	BAGT	ACAA(AACC.	ACAA
F TT(K AA(K AAA CAGG	rctt' ATAG	PATT	CTCC	rgga(rtga:	CTAA	SCTT(ACAT	CAGG(ACTC.	ATTA	AATA
V GTG	L T CTA ACA	A GCC CATA(AGCT.	STTT.	TAA(AGCT.	PAAG(SCAG(4GCC:	3GAA J	3AAA(CCAC	AATAI	3TCT/
S TCT	L CTA	N AAT AATC	ACTG	GTTT(GGAT	CTC	GCTG/ AGAC(CACT	STAA(AAGG	rcag(ACAG(PTCT(raagi	LTGT(
AAC	9 9	K AAG ITTG	GGAA!	CAGG	rgcc(ragī(rīgg	3AGA(rTAG(CTGC	rgag;	3CTG	rgag	CATT
N AAC	I ATJ	E GAG ICTT	rttg(AAAC;	LTGA(CACA		rgaa(AAAT	STGA(4GGG(CACC	CCTG(3TTT.	ATAC(
I ATC	T ACC	C TGT CAAC	CCCA!	TCTG AACA	CATT	AGGG(SAAC(3005	ACCA	CTA(BAGA	AAAT(3TAC(PTGT(3CAC
W TGG	& Ω Ω	I ATC CTTG(CTTG(FTTT)	CTAG:	ACCC(GGGG ATAG(CAAA(PGTA	ACAG(AAAA(ATGG.	rgga(CCTT	PACA(
R CGT	C TGT	R AGG FATA(GGTC	AGGC(3GGA	CCTTC	rcag		AGGCZ	ragg;	ICAA	3TCT.	3ATG(AAAG.
W TGG	N AAC	R CGC SAAC	PAGC(AGGA	AAAA	rcaa(7766(7666(PTCT	AACT(racc.	AGAG	4GGG	ACAA(AAGA(CACC
R AGG	F TTC	S Y R R AGC TAC CGC AGG	CCAG:	SATC.	FLTC	10000 10100	CTG	ATGTZ	TGAG	CCGA	CATC	3AAG	4GAA	PAGT(
K AAA	N AAT	S AGC IGTG	rcta(Zaggz	SACT(TCTC	ACTA/	BATT	ACATZ	AAGCC	3000	3GAA(4GAG(AAAG	TAA!
E GAG	Q CAG	D I GAC ATC AGTTCCC	CTG	TTCT(CGTC	OTGA/	ACTAC	ATA1	SAGAZ	CCAC	AAAGC	AGAA7	PAAG2	3GAA2
R E E K R W R CGT GAA GAG AAA AGG TGG CGT	Q N Q N F N C CAG AAT CAG AAT TTC AAC TGT		TTACCTATCTGTCTACCAGTAGCGGTCCTTGCCCATTTGGGAAACTGAGCTTCTTTTTTTT	TGAGCATITICTGACTGATCAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTT	TGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCACAAGCGAGGGTAGCAGAGGCTC	CCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGGCTTTGGAGCAGCAGGACGGAC	CAAACACACTAGATTTCTGTTCTTCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAA	ACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTA SOMOOOMON'N MMMOMMO'N ON'N MMMMM'N N'N NIMMMOON NOOMOMAN OO NA NIN NIN SOO NA NIN NIN NIN NIN NIN NIN NIN NIN N	AGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATTGATTG	GAACTGGTCCAGCCGCCGAAGAGTAGGAAAAAAAAGAGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCA	ATAGTAAAAAGGGAACATCAGGGTCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAAG	AAAGGCAAGAAAGAGGAAGACAAGTCTTGGAGTACCCTGGCTGTTCTCCACACTCACAAGACATCAGCTATACTCTGCT	TGGTGCATAAGAAAGAGAAAAGAGATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAA	AACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTTGTGTCTAATAACAATGTAGCACAGTAATGACTGT
R CGT	Q CAG	C TGT TCAC	TTAC	TGAC	TGTC	CCTC	CAAA	ACTC	AGTT	GAAC	ATAG	AAAG	TGG1	AACI

Fig. 111

3905 3984 3589 3668 3826 2562 2799 2878 2957 3036 3115 3273 3352 3431 3510 2641 3747 GCAAGCCACTGAATTTGAGTTTTCACTTTTGTTTTCTAATATGCTGTGAGTCAGTACAGTTTTCTTACCCTTTCTTGGT TGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCT TTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATA <u>AAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATG</u> ACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAG GTCTCTCGTATAGCAAAATCTAACTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTAT TGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAAAAAAGCCATGA AATTNTAGCAAGCCACTGAATTTTGAGTTTTTCACTTTTGGTTTTCTAATATGCTGTGTGAATCAGANCAGKTTTTCTTACCCT TTCTTGGTCTTAATTTCCTTACTGATAAAATGGGGTWGTAATACCTATCTCAAAAAATTATTGCACATATTARATAACA TTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAAGTTGAGATCTTCATCCAAG <u>AAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTTCAGAACTTGTTTACTCATTTATAATA</u> TTTTCATGACCTCAAATGTGGGCCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCT CCTAGGTTTCATCATTTTTGGCTCCTTAGCATGGCCACTTACAATTTTTTAACATGAGATAACATCAGGTGTGTCAGAA GAAGAGAGAACTGTAGTTGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACA TCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCA ATGGCCTGGGGTGGGAGTGGGGAGTAGATAGGGAATATGTGGGATTTGGTTTAAGTTCATCATTGGGAGAGTTCCTGGA CTTAATTTCCTTACTGATAAAATGGGGTAGTAATACCTATCTCAAAAAATTATTGCACATATTAAATAACATTCCTCTA TGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACAC aaatatcaacagaactctagccaaaggcaagccccagaactcagacaacaagaaaaggaaatcctaatctttga

Fig. 110

79	14	34	54	74	94	114
158	220		340	400	460	520
3GGC	Z.D.	S	S	D	E	K
AGAG		AGT	AGT	GAC	GAA	AAA
TGAAGAAGGAAGGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGC	V	K	S	K	N	E
GGCCACCAGGAAGACCCCCATCTGCAAGCAAGCCTAGCCTTCCAGGGAGAAAAA	A GTG	AAA	AGC	AAA	AAT	GAG
AGGAC	V	N	ტ	CCC	W	Р
AGGGA	3 GTA	AAC	ტტტ		TGG	ССА
CTC2	V r GTG	F	F TTT	C TGC	S TCT	T ACG
ATAT7	I	I	I	V	S	N
AGCC1	PATT	ATT	ATT	GTC	TCA	AAC
PAGCZ	L	Q	Q	T	E	V
SCCTZ	GCTT	CAG	CAG	ACA	GAA	GTC
AAGG	999	P CCA	S TCA	G GGA	S TCT	I ATT
GCA?	STCT	F	V GTC	Y TAT	T ACT	A GCA
TTGG	I	Y	T	S	S	L
	ATC	TAT	ACA	AGC	TCC	TTG
FTTGC CCC?	I ATC	L	G GGA	R AGG	$_{ m L}$	T ACA
AACG	M	L	Y	T	F	S
	ATG	CTA	TAT	ACA	TTC	TCC
GGAAG	H G CAC	${ m F}$ ${ m TTT}$	S AGC	T ACC	F TTT	G GGA
GAAG	W	L	R	I	C	K
	TGG	TTA	AGG	ATT	TGT	AAA
TGAP	N AAC	TACC	T ACC	F TTC	R AGA	G GGA
ACTG	M	M	T		A	K
	ATG	ATG	ACC	990	GCA	AAA
TGAG	CATC	G GGA	T ACC	N AAC	Q CAA	C TGC
GAGG	CCT	V GTT	F TTC	ъ ССС	Y TAT	F TTT
3TGGTCGCGGCCGAGGTGAGACTGTGAAGAAGGAAGAACGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGC	M	V	G	S	F	D
3CCTGCCTGCCACACCAAGCATTAGGCCACCAGGAAGACCCCCCATCTGCAAGCAA	SCCCCTGCAGCTCCTTCATC ATG	GTT	GGT	AGT	TTT	GAC
FCGC FCCT	CTGC	K AAA	D GAT	PCCA	E GAA	R AGG
37G6	၁၁၁၅	L CTT	N AAC	နှ ပြင်င	W rgg	S AGC

Fig. 11D

F L Q D I T D A E K Y F I G L I Y TTT CTT CAG GAC ATA ACT GAT GCT GAG AAG TAT TTT ATT GGC TTA ATT TAC

L K CTG AAG

134 580

H

154 C 640	174 G 700	178 715		G 1031 A 1110			142			166		A 1821	1900
S AA	n GG		STAG CAGG CAAA	GTGA	STIC	STIC	TAAC	GTAT	ATAC	AAGA	CAGG	GACA	C K K
V GT(G G		CCA(AGA(AGG(TOT	ATG	TGA(CTG	CCG.	CAT	GAA(7
Y TAC	I ATT		TCTA CAGG GACT		ACTA	GATT	ACA 1	TTGI	AAGC	9009	GGAA	AGAG	
K AAG	E GAG		PCTG PCTC PTCT	STAA ICGT	CTGA	ACTA	rata	STAT	3AGA	ICCA	AAAG	AGAA	ر لا لا لا د
9 99 9	PCT		CTA	GGA(AGT(CAC	CAT	3GCT(CTG(TGG	TAA	3GCA	7
N AAT	K AAA		TTCC CTAG	CTAC	CCTC	CAAZ	ACTO	CCTO	AGT	GAAC	ATAC	AAAG	וייי
F TTC	T ACC		TCTA GATG GTAC	ACTA GTCC	CTCT	GAGC	TGAA	AGTA	CTTC	TCT	GCAC	GAAG	וכיכווי
V GTG	K AAG		CCCA PACTG	CCAT	GAGG	AAGG	TTTC	TTTG	'ATCC	TTGA	ATAA	ACTG	O E O € 1
S TCT	Q CAA		CCAA GGGG	TATA	AGCA	AGCC	CATA	AGGI	ATTC	CACA	CGGA	CCAC	FEE
N AAC	L CTT		TCTI	'AGAG	GGGT	AGGC	TTGI	CTGA	ATAI	GCAT	GGCA	TTGG	7
N AAC	L TTG		CCTT	CCTC	GCGA	AACC	TCCC	TGCI	CACA	ATTG	TGGG	TCAT	ر د د
I ATC	G GGT		TTCT TCTT	TTAG	ACAA	AGAA	AAAT	CCTT	TAAT	ACTG	TGGC	GAGT	ار د د
W	CTT		GCTC TCTT	TATT		TGGA	CTA	GCTT	ACAA	TGGC	ACAT	CAGG	
R CGT	D GAT		TTCT AGCT	GTTT	CTAA	CCCT	TAAG	GCAG	GGCA	AGCC	GGAA	GAAA	
W TGG	ტ ტტტ		TCTG ACTG CAGT	GTTT	CCTC	GCIG AGAC	CACT	GTAA	CTTA	AAGG	TCAG	ACAG	5
R AGG	P CCT	* TAG	TGAC GGAA AACT	CAGG	TGCC	TAGI	GAGA	TTAG	GTCT	CCCC	CTGC	TGAG	ないても かんしゅ かんし かんしん かんしん かんしん かんしん かんしん かんしん
Ř AAA	F TTT	E GAA	CACT	TTGA	CACA		TGAA	AAAT	GATA	CTGA	AGGG	CACC	
R E E K R W R W I N N S V F N G K Y V N CGT GAA GAG AAA AGG TGG CGT TGG ATC AAC ACC TCT GTG TTC AAT GGC AAG TAC GTG AAC	M P Q F P G D L G L L Q K T K P E I A G ATG CCA CAG TTT CCT GGG GAT CTT GGT TTG CTT CAA AAG ACC AAA CCT GAG ATT GCT GGG	F T L E * TTC ACC CTG GAA TAG	CTCAAACGCTGACACTTGACTCTGTTCTGCTCTTCTCCTTTCTTCCAACCCATCTATTCCCTATCTGTCTACCAGTAGC GGTCCTTGCCCATTTGGGAAACTGAGCTTCTTTCTTCTGCACTGGGGGACTGGATGCTAGCCATCTCTGAGAGAGA	AGGCCTAGTCTGTTGACAGGGTTTGTTTTATTTTAGCCTCAGAGTATACCATACCATACTAGGGAGTAACTGTAGGGAGTAACTGTAGAGTGAG AAATTATAAACATTATTTAGGGATTACCATGGTGGAAGAGAGGGGATAAACATAGGTCCTGTGACTTCGTCTGTGTTTTTTTT	GGGAACCCCCATTCACATGCCCCTCCTAACTCCACAAGCGAGGGTAGCAGAGGCTCTCCTCCTCAGTCTGAACTAAGGCTTGG	CCITIGGGGAGGGCICCIAGIGCIGAGCIIGGAGCAGCAGCAGCAGCAGCAIIGIIIAIGGGAACACAAGAAAACAAAAAAAA	TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACT	CCTTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTATTTGTTGAGTATT	TTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTTCATCCCTTCAGTTCTGGAGAAAGCCTGATACC	AGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGGTCCAGCCGCCGAAGAG	TAGGAAAAGAGAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGG	TCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAGGGAAGAAGACAA	Ę
E	P CCA	T ACC	AACG CTTG TTTT	CTAG	ACCC	GGGG ATAG	CAAA	TGTA	AAAT	ACAG	AAAA	ATGG	Č
R CGT	M ATG	F TTC	CTCA GGTC TCAG	AGGC	GGGA	CAGG	TCAG	CCTT	TTTA	AGGC	TAGG	TCAA	E

Fig. 11E

2295 2611 2690 2769 2848 2927 3008 3085 3164 3322 3480 3559 2216 2374 2453 2532 3243 3401 2137 STTTAATTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCAATGGCCTGGGGGTGGGAGTGGGGA STAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGTCAGAGAAAG GGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGGCCCAGCCTA SGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGA CTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTATTGTTCATCCAGCAACCAGGATGA SATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCA TTAGACATTAGGAGAAGCATTTTGTGGAGGATTTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTTCAATTTGSTAGA 3GAAAGGATAAGTGCTACCGTTGAGAAGGGAAGAAGGCTGAGTCTAGGTGGAGAAAAAATATCAACAGAACTCTAGCCA ACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTTCTTTAGTAGACA GGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACAT TAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTAAT TCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAAAAAAAAAGCCATGAAATTNTAGCAAGCCACTGAATTT GAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACT GATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAAAACTGATGGAAATAATAGTCACC aaagtacagcacataccattttgtgtctaataacaatgtagcacagtaatgactgtactgtacatgtcattgtatataccaa <u> ACAAGATTGTTGTAAATCATATTTTTTTTATTACAACACTAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCT</u> aaggcaagccccagaactcagacaacagaaaaggaaatcctaatccttctgttttgagaagagagaactgtagttgcttc GTAGATAGGGAATATGTGGGATTTTGGTTTTAAGTTCATTGGGAGAGTTCCTGGATCCTTGCAAGCTTAGATAAATGT CACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAAT

Fig. 11F

AGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAAATTTGTGCAAGT CAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGC CCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGA
TCAGCTGAAACTCTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAA

Fig. 11G

79 158	19 218
ACCA	G GGA
CACA	V GTT
CTGC	V GTT
TGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGCCCCTGCCTG	I I S G L I V V L K V V G ATC ATC TCT GGG CTT ATT GTG GTA GTG CTT AAA GTT GTA
BGCCC	L
ACGGC SAAAC	V GTG
GAGA GGGAG	V GTA
TCAC	V GTG
PATTC	I ATT
AGCAT	L CTT
AAGGA	ი მმმ
SCAAA	S TCT
TGGC	I ATC
TGCI	I ATC
ACGT	M ATG
SAAGP SGAAG	H CAC
SAAGG	W
AGACTGTGAAGAAGGAAGAACGT. GCATTAGGCCACCAGGAAGACCC	N W H AAC TGG CAC
CTG1	M ATG
GAGA	ATC

59	79	99
338	398	458
C TGT	K AAA	TACT
R	G	I
AGA	GGA	ATA
A	K	D
GCA	AAA	GAC
Q	C	Q
CAA	TGC	CAG
Y TAT	F TTT	L
F	D	F
TTT	GAC	TTT
E	R	K
GAA	AGG	AAG
W	S	L
TGG	AGC	CTG
D	E	K
GAC	GAA	AAA
K	N	E
AAA	AAT	GAG
PCCC	\overline{W}	P CCA
C TGC	_	T ACG
V GTC	_	N AAC
T	E	V
ACA	GAA	GTC
G	S	I
GGA	TCT	ATT
Y	T	A
TAT	ACT	GCA
S	S	L
AGC	TCC	TTG
R	L	T
AGG	TTA	ACA
ACC	F TTC	S
ACC	F TTT	G GGA
	T R S Y G T V C P K D W E F Y Q A R C ACC AGG AGC TAT GGA ACA GTC TGC CCC AAA GAC TGG GAA TTT TAT CAA GCA AGA TGT	T R S Y G T V C P K D W E F Y Q A R C A C A C C A A C A C A C A C A C A

Fig. 11H

119 518	139 578	159 638	165 659	738 817 896 975 1133 1212 1291 1370 1528	7.09T
R W GGT TGG	A GCG	I ATC		FTAC STAC STCT STCT STTT SAGC CTTT	Γ CTA
R CGT	$^{\mathrm{C}}$	R AGG		ACTECTION OF THE PROPERTY AT THE PAGE OF T	'TGA'
W TGG	N AAC	R CGC		GATT GGGGA AAACA GGCAG GGCCA GGCTT GGTTTCA	'ACA'I
R AGG	F TTC	YTAC		CCAATAGE CCGC CCGC CCGC CCGC CCGC CCGC CCGC C	CATC
K AAA	N AAT	S AGC		TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO TIGGO	TIGG
E GAG	Q CAG	I ATC		CGTC CTTC GATG TAGC GGAA CAGC GAAA CTTT	CTGA
E GAA	N AAT	D GAC		AGGT TAGA TTTT TCCA TCCA TGAAA TAAAA	GGCA
R CGT	Q CAG	C TGT		ATAC GCTT AGTA TTTTT TAAC TAAC CCTT CCCTT	CCCT
H CAT	N AAT	S TCA		ATCC ACTGA TTTG GATT CCTCC CACC GACC	AGGA
Y TAC	T ACC	A GCA		TTGA GAAA ACTC ACCC TAGG TGCCC TGCA	CCCA
I ATT	V GTT	A GCT		CTTT AACA TGAC TGAC TATT TATT ACAT TCC TCC TATC AATT	TGAC
L TTA	N AAT	D GAT		AACT CCAT CCGA CCGGA CATTC CGGGC AACC	CTAC
9 9 9	9 990 0	F TTT		TTGC TTTGC TTTTA TTTGT TAGGGA TAGGGA GTAA	CAGC
I ATT	N AAT	T ACA	* TGA	ATAC GGCC AATT GGAA GGAA GGAA CTTGC	GGCA
F	F TTC	K AAG	K AAA	AAACT AGGAT AAAA GAGAGAGAGAGAGAGAGAGAGAGAGAG	ACCA
Y TAT	V GTG	T ACA	A GCC	CAAG CAACA ATCA ATCT CAGT CACT CTCT CTGTA	TGAT
Ř AAG	S TCT	L CTA	N AAT	GTGA CTAC AGGA ACTG CTAA AGAGA CATAT	AGCC
EGAG	N AAC	9 990	K AAG	CCCT CTGI CTCC TTAAC CGTC CTAGAA	AGAA
D A E K Y F I G L I Y H R E E K R W GAT GCT GAG AAG TAT TTT ATT GGC TTA ATT TAC CAT CGT GAA GAG AAA AGG TGG	I N N S V F N G N V T N Q N Q N F N C A ATC AAC AAC TCT GTG TTC AAT GGC AAT GTT ACC AAT CAG AAT CAG AAT TTC AAC TGT GCG	T I G L T K T F D A A S C D I S Y R R I ACC ATT GGC CTA ACA AAG ACA TTT GAT GCT GCA TCA TGT GAC ATC AGC TAC CGC AGG ATC	C E K N A K * TGT GAG AAG AAT GCC AAA TGA	TCACAGTTCCCTGTGACAAGAACTATACTTGCCAACTCTTTTTGAATCCATACAGGTCGTCTGGCCCAATGATTCTTTTACCTTACCTTACCTTACCTTGCCACTGGCGGGCACTGGATGCTTTTACCTTACCTTTTTTTT	<u> </u>
D GAT	I ATC	TACC	C TGT	TCAC TTAC CTAG TGAG CTAG TGTG CCTC ATGG	AGTIT

AGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTA

2476 2555 1844 2239 2318 2397 2634 2713 2792 2950 3029 3108 3266 1923 2002 2081 2160 2871 3187 SAACTGGTCCAGCCGCCGAAGAGTAGGAAAAAGAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCAC ATAGTAAAAAGGGAACATCAGGGTCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAG <u> AAAGGCAAGAAAGAGGAAGACAAGTCTTGGAGTACCCTGGCTGTTCTCCACACTCACAAGACATCAGCTATAGTACTCTGCT</u> TGGTGCATAAGAAAGAGAAAAGAGATGCCTTTTGTGTTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAA <u>AÀCTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGTAATGACTGT</u> CCTAGGTTTCATCATTTTTGGCTCCTTAGCATGGCCACTTACAATTTTTTAACATGAGATAACATCAGGTGTCAGAA AAATATCAACAGAACTCTAGCCAAAGGCCAAGCCCCAGAACTCAGACAACAGAAAGGAAATCCTAATCCTTCTGTTTTGA GAAGAGAGAACTGTAGTTGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACA TCTAGTGATTTCTTTAGTAGACAGTTTAATTTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCA ATGGCCTGGGGGTGGGAGTGGGGAGTAGATAGGGGAATATGTGGGATTTGGTTTAAGTTCATCATTGGGAGAGTTCCTGGA GCAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCTTTTCTTGGT CTTAATTTCCTTACTGATAAAATGGGGTAGTAATACCTATCTCAAAAAATTATTGCACATATTAAATAACATTCCTCTA TGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCT TTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACATTTTATAATATGGGAATA aaaatttgtgcaagtcagagaagggtgccttaaaaatgttgtggccaagccacatgagatcaaagacacacttttcatg ACCTCAAATGTGGGGCCCAGCCTAGGTCAGCCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAG GTCTCTCGTATAGCAAAATCTAACTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTAT IGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAAAAAAGCCATGA AATTNTAGCAAGCCACTGAATTTGAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKTTTCTTACCCT

TICTIGGICTIAATITICCTIACTGATAAAATGGGGTWGTAATACCTATCTCAAAAAATTATTGCACATATTARATAACA
TTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAG
AAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATA
TGGGAATAAAATTTGTGCAAGTCAGAGAGAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACAC
TTTTCATGACCTCAAATGTGGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCT
GAGATCAGCAGCCACCCTAGATCAGCTGAAACTCTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAA
AAAAAAA

Fig. 11K

6/.	158	19	39 278	59 r 338
ACCA	CTT(G GGA	ACC	C TGT
CAC	CTC	V GTT	F TTC	R AGA
CTG(GCAC	V GTT	G GGT	A GCA
CTGC	CCCI	K AAA	D GAT	Q CAA
	AGGC	L	N AAC	Y TAT
99901	AAAG	V GTG	S AGT	F TTT
GAGA	GGAG	V GTA	K AAA	E GAA
TCAG	CCAG	√ GTG	N AAC	D W GAC TGG
PATTC	CCT	I ATT	FTT	D GAC
GCAT	CTAC	L CTT	I ATT	K AA
AAGG2	YAAGO	ტ ტტ	Q CAG	P CCC A
3CAA7	ZAAGC	S lcT	Y F P :	C TGC
r <u>r</u> gg(rcTG	I I ATC ATC 1	F	T V C ACA GTC TGC
rīgc.	CCA	I ATC	Y TAT	T ACA
AACG:	BACC	M ATG	L	G GGA
3AAG	BGAAC	W H TGG CAC	L CTA	Y TAT
BAAGG	ACCAG	T GG	F TTT	S Y AGC TAT
GAAC	3GCC?	M N TG AAC	L TTA	R AGG
<u> SAGACTGTGAAGAAGGAAGAACGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGCCCCTGCCTG</u>	AGCATTAGGCCACCAGGAAGACCCCCCATCTGCAAGCAAG	M N W H ATC ATG AAC TGG CAC	M T L F L L ATG ACC TTA TTT CTA CTT	T T R S Y G ACC ACC AGG AGC TAT GGA
3AG2	AGCZ	ATC	M ATG	F F C C

Fig. 11L

79	99	119	139	155
398	458	518	578	629
K AAA	TACT	W TGG	L	
G	I	R	D	
GGA	ATA	CGT	GAT	
K	D	W	ტ	
AAA	GAC	TGG	ტტტ	
C	Q	R	P	*
TGC	CAG	AGG	CCT	TAG
${ m F}$	L	K AAA	F TTT	E GAA
D	F	E	Q	L
GAC	TTT	GAG	CAG	CTG
R	K	E	P	T
AGG	AAG	GAA	CCA	ACC
S	L	R	M	F
AGC	CTG	CGT	ATG	
E	K	H	N	ტ
	AAA	CAT	AAC	ტტტ
N	E	$^{ m Y}$	V	A
AAT	GAG		GTG	GCT
M	P CCA	I ATT	$^{ m Y}$	I ATT
S	T	L	K	E
TCT	ACG	TTA	AAG	GAG
S	N	9	ი	P
TCA	AAC	9	მმ	CCT
E	V	I	N	K
	GTC	ATT	AAT	AAA
S	I	F	F	T
TCT	ATT	TTT	TTC	ACC
TACT	A GCA	$_{\mathtt{TAT}}^{\mathrm{Y}}$	V GTG	K AAG
S	L	K	S	Q
TCC	TTG	AAG	TCT	CAA
L	T	E	N	L
TTA	ACA	GAG	AAC	
F	S	A	N	L
	TCC	GCT	AAC	TTG
F	g	D	I	G
I'T'T	ggA	3AT	ATC	GGT

1498 1656 1735 1814 1893 1972 2130 2209 2288 2367 2446 2525 2604 2683 2762 2841 2920 2999 3078 1577 2051 GGAAAGGATAAGTGCTACCGTTGAGAAGGAAGAAAGGCTGAGTCTAGGTGGAGAAAAAAATATCAACAGAACTCTAGCCA ACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTTTTAGTAGACA GTTTAATTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCAATGGCCTGGGGGTGGGAGTGGGGA GTAGGCAAGCCACTTCATTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAAATTTGTGCAAGTCAGAGAAG GGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGGCCCAGCCTA GGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGA SATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAAAACTGATGGAAATAATAGTCACC CACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAT TAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTTAAT AGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGGTCCAGCCGCCGAAGAG TAGGAAAAGAGAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGG ACAAGATTGTTGTAAATCATATTTTTTTTACAACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCT aaggcaagccccagaactcagacaacagaaaggaaatcctaatccttctgttttgagaagagagaactgtagttgcttc GTAGATAGGGAATATGTGGGATTTGGTTTTAAGTTCATTGGGAGAGTTCCTGGATCCTTGCAAGCTTTAGATAAATGT GGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACAT CCTTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTATTTGTTGAGTATT TTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTTCATCCCTTCAGTTCTGGAGAAAGCCTGATACC

Fig. 11N

CTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTATTGTTCATCCAGCAACCAGGATGA	3315
TCTTGTTAAAACATTAAACCAGATTCTGTCAYKCTTTMAAAAAAAAAAAAAAAAGCCATGAAATTNTAGCAAGCCACTGAATTT	3394
GAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACT	3473
GATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCA	3552
TTAGACATTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGSTAGA	3631
AGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGT	3710
CAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGC	3789
CCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGCAGCCACCTAGA	3868
TCAGCTGAAACTCTAAGCACAAAAATAAAACTTATCACTGTAAAAAAAA	3947

Fig. 110

79	158
GAGACTGTGAAGAAGGAAGGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGCCCCTGCCTG	AGCATTAGGCCACCAGGAAGACCCCCATCTGCAAGCAAGC

19	39	59
218	278	338
G	C	K
GGA	TGT	AAA
V	R	G
GTT	AGA	GGA
V	A	K
GTT	GCA	AAA
K	Q	၁
AAA	CAA	၂၀
L	$^{ m Y}$	${ m F}$
V	F	D
GTG	TTT	GAC
V	E	R
GTA	GAA	AGG
V	W	S
GTG	TGG	AGC
I	D	E
ATT	GAC	GAA
L	K AAA	N AAT
999	CCC	¥ ¶GG
S	C	S S
TCT	FGC	TCA TCT
I ATC	F	S TCA
I	Y	E
ATC	TAT	GAA 1
M ATG	L CTT	S
H	L	S T
CAC	CTA	TCC ACT
W TGG	F TTT	S
NAAC	L TTA	L TTA
M ATG	T ACC	F
ATC	M ATG	F TTT

Fig. 11P

79	99	119	139	145
398	458	518	578	599
T	W	A	I	
ACT	TGG	GCG	ATC	
I ATA	R CGT	$^{ m C}$	R AGG	
D GAC	M	N AAC	R CGC	
Q CAG	R AGG	F TTC	YTAC	
L	K AAA	N AAT	S AGC	
F	E	Q	I	
TTT	GAG	CAG	ATC	
K	E	N	D	
AAG	GAA	AAT	GAC	
L	R	Q	C	
CTG	CGT	CAG	TGT	
K	H	N	s	
AAA	CAT	AAT	TCA	
E GAG	YTAC	T ACC	A GCA	
PCCA	I ATT	V GTT	A GCT	
T	L	N	D	
ACG	TTA	AAT	GAT	
N	9	9	F	
AAC	990	990	TTT	
V	I	N	T	*
GTC	ATT	AAT	ACA	TGA
I	F	F	K	K
ATT	TTT	TTC	AAG	AAA
A	$_{\mathtt{TAT}}^{\mathtt{Y}}$	V	T	A
GCA		GTG	ACA	GCC
$_{ m L}$	K	S	L	N
	AAG	TCT	CTA	AAT
T	E	N	9	K
ACA	GAG	AAC	9	AAG
S	A	N	I	E
TCC	GCT	AAC	ATT	GAG
G	D	I	F GC	C
GGA	3AT	ATC		IGT

1073 1152 TGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCACAAGCGAGGGTAGCAGAGGCTCT CCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCAGCACGGACAGCAGCAGTTGTTT ATGGGAATGGAGAGGGCTCTGGGCAGGATAGGAACCTTCTTGGAGACCCCTTTGAAGAAAACCAGGCAGCCAAGGGAGC

678 757

TCACAGTTCCCTGTGACAAGAACTATACTTGCAACTCTTTTTGAATCCATACAGGTCGTCTGGCCAATGATTCTTTAC CTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTAC CTAGGGAGTAACTGTAGAGTGAGAAATTATAAACATTATTTAGGGATTACCATGGTGGAAGAGGGGATAAACATAGGTCC

836 915

994

2416 2495 2969 2258 2574 2732 2890 1468 1626 1705 1784 1942 2100 2179 2337 2653 2811 1547 1863 2021 AAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATG CAAACACACTAGATTTCTGTTCTTCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAA TGGTGCATAAGAAAGAGAAAAGAGATGCCTTTTTGTGTTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAA <u>AACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGTAATGACTGT</u> CCTAGGTTTCATCATTTTTGGCTCCTTAGCATGGCCACTTACAATTTTTTAACATGAGATAACATCAGGTGTCAGAA ATACAAGTTCTCTGACTGTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGAAGAAAGGCTGAGTCTAGGTGGAGAA aaatatcaacagaactctagccaaaggcaagccccagaactcagacaacagaaaggaaatcctaatcttctga GAAGAGAGAACTGTAGTTGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACA TCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCA ATGGCCTGGGGTGGGGAGTGGGGAGTAGATAGGGAATATGTGGGATTTGGTTTAAGTTCATCATTGGGAGAGTTCCTGGA CTTAATTTCCTTACTGATAAAATGGGGTAGTAATACCTATCTCAAAAAATTATTGCACATATTAAATAACATTCCTCTA TTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATA ACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAG ACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTA CCTGGCTGTATTTGTTGAGTATTTTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTCATCCCTTC AGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTA SAACTGGTCCAGCCGCCGAAGAGTAGGAAAAAAGAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCAC ATAGTAAAAAGGGAACATCAGGGTCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAG <u> AAAGGCAAGAAAGAGGAAGACAAGTCTTGGAGTACCCTGGCTGTTCTCCACACTCACAAGACATCAGCTATACTCTGCT</u> GCAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGAATCAGTACAGTTTTCTTACCTTTTCTTGGT TGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTTGTGGAGGATTTTGAAGTTGAGATCTTCATCCAAGAAGTAGCT

Fig.~11R

CAGAGCCACCCTAGATCAGCTGAAACTCTAAGCACAAAAATAAAAAATTATATCACTGTAAAAAAAA
GTCTCTCGTATAGCAAAATCTAACTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTAT
TGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTWAAAAAAAAAAAAAGCCATGA
AATTINTAGCAAGCCACTGAATTTGAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKTTTCTTACCT
TTCTTGGTCTTAATTTCCTTACTGATAAAATGGGGTWGTAATACCTATCTCAAAAAATTATTGCACATATTARATAACA
TTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAGGAGTTTTGTGGAGGATTTGAAGTTGAAGTTGAGATCTTCATCCAAG
AAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTTATAATA
TGGGAATAAAAATTTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACAC
TTTTCATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCTTAGACTCACGAACAAATCCACCT
GAGATCAGCAGCCACCCTAGATCAGCTGAAACTCTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAA
AAAAAAA

Fig. 11S

7.9 158	19 218	39 278	59 338	79 398	99 458	119 518
CTTC	G GGA	C TGT	K AAA	T ACT	W TGG	L
CACA	V GTT	R AGA	G GGA	I ATA	R CGT	D GAT
IGCA(V GTT	A GCA	K AAA	D GAC	W TGG	G GGG
	K AAA	Q CAA	C TGC	Q CAG	R AGG	P CCT
SGCC SAGGC	L	Y TAT	F TTT	L	K AAA	F TTT
acece saaac	V GTG	F TTT	D GAC	F TTT	E GAG	Q CAG
SGAGA SGGAC	V GTA	E GAA	R AGG	K AAG	E GAA	P CCA
CCAC	V GTG	$_{ m M}$	S AGC	L CTG	R CGT	M ATG
PATTC	I ATT	D GAC	E GAA	K AAA	H CAT	N AAC
AGCAT	L	K AAA	N AAT	E GAG	$^{ m Y}$	V GTG
AAGGZ SAAGC	ი მიმ	P	W TGG	P CCA	I ATT	$^{ m Y}$
SCAAA	S TCT	C TGC	S TCT	T ACG	$_{ m TTA}$	K AAG
rrgg(I ATC	F TTC	S TCA	N AAC	9 99 0	9 9
rrgc:	I ATC	$_{\mathtt{TAT}}^{\mathtt{Y}}$	E GAA	V GTC	I ATT	N AAT
GAGACTGTGAAGAAGAAGAACGTTGCTTGGGCAAAAGGAGCATATTCTCAGGAGACGGGGCCCCTGCCTG	M ATG	L	S TCT	I ATT	F TTT	F TTC
	H CAC	L CTA	T ACT	A GCA	$^{ m Y}$	V GTG
SAAGO	M TGG	F TTT	S TCC	Γ	K AAG	S TCT
rgaa(3GCC2	N AAC	L TTA	L TTA	T ACA	E GAG	N AAC
ACTG: ATTAC	M ATG	TACC	F TTC	S TCC	A GCT (N AAC
GAG, AGC;	ATC	M ATG	F TTT	G GGA	D GAT	I ATC

135 569

L E * CTG GAA TAG

T ACC

A G F GCT GGG TTC 2

E I GAG ATT (

PCCT

K AAA

T ACC

K AAG

Q CAA

CTT

L TTG

G GGT

1359 1438 1596 1675 1754 1912 1280 1517 1833 2070 2149 2228 2307 1122 1991 1043 1201 806 885 964 CTCAAACGCTGACACTTGACTCTGTTCTGCTCTTCTCCTTTCTTCCAACCCATCTATTCCCTATCTGTCTACCAGTAGC aggcctagtctgttgacagggtttgttttattttagcctcagagtataccatactagggagtaacttactagggagtaactgtagagtgag GGGAACCCCATTCACATGCCCCTCCTAACTCCACAAGCGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGG CCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCACGGACAGCAGCATTGTTTATGGGAATGGAGAGAGGGTCTGGG TTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACC <u>AGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGGTCCAGCCGCCGAAGAG</u> TAGGAAAAGAGAGAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGG TCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAGGGAAGAAGACAA GATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATGTATAAAACTGATGGAAATAATAGTCACC GGAAAGGATAAGTGCTACCGTTGAGAAGGAAAGAAAGGCTGAGTCTAGGTGGAGAAAAAAATATCAACAGAACTCTAGCCA GGTCCTTGCCCATTTGGGAAACTGAGCTTCTTTCTTCTGCACTGGGGGACTGGATGCTAGCCATCTCCAGGAGACAGGA CAGGATAGGAACCTTCTTGGAGACCCCTTTGAAGAAACCAGGCAGCCAAGGGAGCCAAACACACTAGATTTCTGTTCT TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACT CCTTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTATTTGTTGAGTATT ACAAGATTGTTAAATCATATTTTTTATTACAACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCT ACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACA

Fig.~11U

GTTTAATTTCCCCCAAGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCAATGGCCTGGGGTGGGAGTGGGGA	2465
GTAGATAGGGAATATGTGGGATTTGGTTTAAGTTCATTGGGAGAGTTCCTGGATCCTTGCAAGCTTAGATAAATGT	2544
GATCTTTATTAGATAGCAGTGGCATGCTTTTAAAAAAAAA	2623
CACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAT	2702
GGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACAT	2781
TAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTAAT	2860
GTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTTACTCATTTATAATATGGGAATAAAAATTTGTGCAAGTCAGAGAAG	2939
GGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGCCCCAGCCTA	3018
GGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGA	3097
AACTCTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAA	3176
CTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTTCGTGTATTGTTCATCCAGCAACCAGGATGA	3255
TCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAAAAAAAAAGCCATGAAATTNTAGCAAGCCACTGAATTT	3334
GAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACT	3413
GATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTATGGCA	3492
TTAGACATTAGGAGAAGCATTTTGTGGAGGATTTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGSTAGA	3571
AGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATATGGGAATAAAAATTTGTGCAAGT	3650
CAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATGTGGGC	3729
CCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCTAGA	3808
TCAGCTGAAACTCTAAGCACAAAAATAAAACTTATCACTGTAAAAAAAA	3887
22252255	3898

${ m Fig.}~11{ m V}$

100 WKDSMDY WKDSMDY WNESRDF WNESRDF WNESRDF WNESRDF	
90 FFSFSESP FFSFSESP FLSTSESS FLSTSESS FLSTSESS FLSTSESS FLSTSESS	EMNAK EMNAK EKNAK EKNAK EKNAK
60 . 70 80 90 100	140 150 160 170 180
. 70 	140 150 160 170 180
60 IFGRNDEST SSSPSPNGF SSSPSPNGF SSSPSPNGF	160 TINQDQNFDC TINQDQNFDC TINQNQNFNC TINQNGNFNC T
50 GTTSVQNVSÇ GTVSQIFC GTV GTV GTVSQIFC	150 INNSVENGNVINNSVENGNVINNSVENGNVINNSVENGNVINNSVENGNVINNSVENGNVINNSVENGKYINNSVENGKYINNSVENGKYINNSVENGKY
40 NDGFVPTESY NDGFTTTRSY NDGFTTTRSY NDGFTTTRSY NDGFTTTRSY NDGFTTTRSY NDGFTTTRSY NDGFTTTRSY	140 COPGEKKWRW RQPGEKKWRW RYHREEKRWRW FHREEKRWRW FHREEKRWRW FHREEKRWRW FHREEKRWRW FHREEKRWRW FHREEKRWRW FHREEKRWRW
30 	130
20 	120
10 20 30 40 50 60 70 80 90 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1	110 120 130 140 150 160 170 180 180 180 180 150 160 170 180 180
XKH40BBDF	N K H A O H M O F

10 20 30 40 50 60 70 80 90 100 <t< th=""><th> </th><th>210 220 230 300 300 300 240 250 260 270 280 290 300 300 </th></t<>		210 220 230 300 300 300 240 250 260 270 280 290 300 300
50 	150 CTTCCAGGGAGAAAC CTTCCAGGGAGAAAC CTTCCAGGGAGAAAC	210 220 230 240 250 2 20 2 20 2 2 2 2 2 2 2 2 2 2 2 2
40 	140	240
30 CTGAAGAAG CTGAAGAAG	130 ATCTGCAAGC ATCTGCAAGC ATCTGCAAGC ATCTGCAAGC ATCTGCAAGC	230
20 AGGTGAGACT AGGAAG AGGAAG AGGAAG	120 AAGACCCCC AAGACCCCC AAGACCCCC AAGACCCCC AAGACCCCC	220
10 20	110 A TTAGGCCACCAGG B TTAGGCCACCAGG C TTAGGCCACCAGG D TTAGGCCACCAGG E TTAGGCCACCAGG	210 A CTGGGCTTATTGT B CTGGGCTTATTGT C CTGGGCTTATTGT D CTGGGCTTATTGT E CTGGGCTTATTGT F CTGGGCTTATTGT

400 	aaagac aaagac	500	TTGGCAA TTGGCAA TTGGCAA TTGGCAA TTGGCAA
390 400 AGTCTGCCCCAAAGACTCTGCCCCAAAGACTCTGCCCCAAAGAC	TCTGCCCCAAAGAC TCTGCCCCAAAGAC	490	GGATCCACAT GGATCCACAT GGATCCACAT GGATCCACAT GGATCCACAT
380 		480	CAAAGGAAAA CAAAGGAAAA CAAAGGAAAA CAAAGGAAAA
370 ACCACAAGGA ACCACAAGGA		470	GGGACTTTTG GGGACTTTTG GGGACTTTTG GGGACTTTTG
360 		460	iaatgaaagca iaatgaaagca iaatgaaagca iaatgaaagca iaatgaaagca
350 		450	ATCATCTTGG ATCATCTTGG ATCATCTTGG ATCATCTTGG ATCATCTTGG
340 AGCAGTTCCC AGCAGTTCCC		440	CCACTTCTGA CCACTTCTGA CCACTTCTGA CCACTTCTGA CCACTTCTGA
330 GATTTTTGGG 		430	TTTTCTTAT TTTTCTTAT TTTTCTTAT TTTTCTTAT TTTTCTTAT
320 CAGTCTCACA CAGTCTCACA CAG		420	AGCAAGATGT AGCAAGATGT AGCAAGATGT AGCAAGATGT AGCAAGATGT
310 320 330 340 360 370 380 390 400 400		410	A TGGGAATTTTATCAAGCAAGATGTTTTTTTTTCTTATCCACTTCTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAA B TGGGAATTTTATCAAGCAAGATGTTTTTTCTTATCCACTTCTTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAA C TGGGAATTTTATCAAGCAAGATGTTTTTTCTTATCCACTTCTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAA D TGGGAATTTTATCAAGCAAGATGTTTTTTCTTATCCACTTCTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAA E TGGGAATTTTATCAAGCAAGATGTTTTTTCTTATCCACTTCTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAA F TGGGAATTTTATCAAGCAAGATGTTTTTTTTTTTTTTTT
4 B C B C B C B C B C B C B C B C B C B	 		А ТОС С ТОС В ТОС ТОС ТОС ТОС

009	1 106CG	16606	50551	50551	rggcg	1GGCG
. 230 -	 3AAGAGAAAAGG1	3aagagaaaagg	aagagaaaagg	3aagagaaaagg	3AAGAGAAAAGG7	3AAGAGAAAAGG1
580	 TACCATCGTC	TACCATCGT	TACCATCGT	TACCATCGT	TACCATCGT	TACCATCGT
570	ן ידפפכדדאפדי	TGGCTTAATT	TGGCTTAATT	TGGCTTAATT	TGGCTTAATT	TGGCTTAATI
560	 \AGTATTTTA	AGTATTTAT	AGTATTTAT	AGTATTTAT	AGTATTTAT	абтаттта
550	 :GATGCTGAGA	GATGCTGAGA	GATGCTGAGA	GATGCTGAGA	GATGCTGAGA	GATGCTGAGA
540	 \GGACATAACT	GGACATAACT	AGGACATAACT	AGGACATAACT	AGGACATAACT	AGGACATAACT
530	 \AGTTTCTTC?	AGTTTCTTC?	AAGTTTCTTC	AAGTTTCTTC?	AGTTTCTTC	AGTTTCTTC
520	 \GAGAAACTGA	GAGAAACTG?	GAGAAACTG?	GAGAAACTGA	GAGAAACTGA	GAGAAACTG
510		B TTGTCAACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATCGTGAAGAAAAGGTGGCG	C TTGTCAACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATCGTGAAGAAAAGGTGGCG	D TTGTCAACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGCCTTAATTTACCATCGTGAAGAAAAGGTGGCG	E TTGTCAACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATCGTGAAGAAAAGGTGGCG	F TTGTCAACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATCGTGAAGAAAAGGTGGCG

Fig. 11X-2

700 TCA GGG GGG TCA GGG	800 AGG AGG AGG	900 1166 1166 1166 1166
7 GCAT GCAT GCTG GCAT	8 TACA TACA TACA	9 GACT GACT GACT GACT
690 	790 	890
680 	780 	880
640 650 660 700 680 690 700		
660	740 750 760 770	860
650 ATCAGAATTTC CACAGAATTTC ATCAGAATTTC ATCAGAATTTC	750 ATCACAGTTCC CTCTTCTCCTT ATCACAGTTCC	850
640 STGAACATGCG ACCAATCAGA STGAACATGCGA	740 	840
630 - GGCAATGTT7 GGCAATGT77 GGCAAGTACC	730 - GTGAGAAGAA GTGAGAAGAAA GTGAGAAGAAAGAAAAGA	0 830 TTTACTTACCTATCTCCCTATCTC TTTACTTACCTATCTC TTTACTTACCTATCTCCCTATCTC TTTACTTACCTATCTC
620 	720 CCGCAGGATCT CCCAGGATCT SCTCAAACGCT	820 ATTCTTTTACT ATTCTTTTACT
610 630 640 650 660 670 680 690 700		810 820 830
КВООВР	чаооын	4 A O O E F

Fig. 11X-3

1000	GAT	GAT	GAT	GAT	GAT	GAT
~	GACT	GACT	GACT	'GACT	GACT	GACT
066	TTTC	TTTC1	TTTC	TTTC	TTTC	TTTC
9	AGCA	AGCA	AGCA	AGCA	AGCA	AGCA
o —	TACTO	TACTO	TACTO	TACTO	TACTO	TACTO
980	GTAG	GTAG	GTAG	GTAG	GTAG	GTAG
	CTTCI	CTTCI	CTTCI	CTTCI	CTTCI	CTTCI
970	TCCG	FICCG	FICCG	TCCG	FICCG	TCCG
	TGAG(TGAG(TGAG(TGAG(TGAG(TGAG
096	AGAĞA	AGAGA	AGAGA	AGAGA	AGAGA	AGAGA
	GTAT.	GTAT	GTAT	GTAT.	GTAT.	GTAT
950	AGTTA	AGTTA	AGTTA	AGTTA	AGTTA	AGTTA
	ACTC	ACTC	ACTC	ACTC	ACTC	ACTC
940	AAACA	AAACA	AAACA	AAACA	AAACA	AAACA
٥,	ACGG	'ACGG	'ACGG	'ACGG	'ACGG	'ACGG
0	GTTTI	GTTT	GTTT	GTTT	GTTT	STTT
930	ATCA	ATCA	ATCA	ATCA	ATCA	ATCA
	ACAGG	ACAGG	ACAGG	ACAGG	ACAGG	ACAGG
920	GGAĞ.	GGAG	GGAG,	GGAG	GGAG	GGAG
	CTCCA	CTCCA	CTCCA	CTCCA	CTCCA	CTCCA
910	CCAT	CCAT	CCAT	CCAT	CCAT	CCAT
	A ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA	ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA	C ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA	D ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAACAACTCAGTTAGTAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA	ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA	ATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTATAGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGA
	A AT	B AT	CAT	D AT	E AT	F AT

	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100
	_									
A	A CAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTTTTTAGCCTCAGAGTATACCATACTAGGGAGTAACTGTAGAGTGAGAAATTATAAAACTTATA	CTGTTGACAGG	GTTTGTTT	ATTTAGCCT	CAGAGTATA	CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT
В	B CAAAAAGGCCTAGTCGTTGACAGGGTTTGTTTTTATTTTAGCCTCAGAGTATACCATACTACTAGGGAGTAACTGTAGAGTAAGAAATTATAAAACATTAT	CTGTTGACAGG	GTTTGTTT7	ATTTAGCCT	CAGAGTATA(CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT
ပ	C CAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTTTTAGCCTCAGAGTATACCATACTACTACTAGGGAGTAACTGTAGAGTGAGAAATTATAAACATTAT	CTGTTGACAGG	GTTTGTTT7	ATTTAGCCT	CAGAGTATA(CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT
0	D CAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTTTTATTTTAGCCTCAGAGTATACCATACTACTAGGGAGTAACTGTAGAGTGAAATTATAAAACATTAT	CTGTTGACAGG	GTTTGTTT	ATTTAGCCT	CAGAGTATA(CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT
E	E CAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTTTTTAGCCTCAGAGTATACCATACTACTAGGGAGTAACTGTAGAGTGAGAAATTATAAACATTAT	CTGTTGACAGG	GTTTGTTTT	ATTTTAGCCT	CAGAGTATA(CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT
F	F CAAAAAGGCCTAGTCTGTTGACAGGGTTTGTTTTTAGCCTCAGAGTATACCATACTACTAGGGAGTAACTGTAGAGGAAATTATAAAACATTAT	CTGTTGACAGG	GTTTGTTTT	ATTTAGCCT	CAGAGTATA(CATACTACT	AGGGAGTAACT	GTAGAGTGAG	AAATTATAA	ACATTAT

1190 1200		AACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCACAAG
1180 11	_	ACATGCCCCTCC
1170		GGAACCCCATTC
1160		CTGTTCTCAAG
1150		TGACTTCGTCT
1140		ATAGGTCCTG
1130		BAGGGATAAAC
1120		TTAGGGATTACCATGGTGGAAGAGGGGATAA
1110		TAGGGATTÄC

B TTAGGGATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCAAAG TTAGGGATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCAAAG TTAGGGATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCAAAG

υ A

TTAGGGATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCAAAG

TTAGGGATTACCATGGTGGAAGAGGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATGCCCCTCCTAACTCCAAAG

[[]I] [II]

1220 1230 1240 1250 1260 1270 1280 	A CGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCAGCACGGACAGCAGCATGTTTAT	B CGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCACGGACAGCAGCATTGTTAT	C CGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCAGGACAGCAGCAGCATTGTTAT	D CGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCACGGACAGCAGCATTGTTAT	E CGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCTCCTAGTGCTGAGCTTGGAGCAGCAGCACGGACAGCAGCATTGTTAT	F CGAGGGTAGCAGAGGCTCTCCACTCAGTCTGAACTAAGGCTTGGGCGCTCCTAGGGGCTCCTAGTGCTTGGAGCAGCAGCACGGACAGCATGTTTAT
1210	CGAGGGTAGCAGA	CGAGGGTAGCAGA	: CGAGGGTAGCAGA	CGAGGGTAGCAGA	CGAGGGTAGCAGA	CGAGGGTAGCAGA

1340	1350
1350 1360	1350 1360 1370
1360	1360 1370
	1370
1380	
1380 1390	1390

1500	TTAGG	TTAGG	TTAGG	TTAGG	TTAGG	TTAGG
1490 	TGTAACCAAAAT	'TGTAACCAAAAT'	'TGTAACCAAAAT	'TGTAACCAAAAT	'TGTAACCAAAAT	тстаассаааат
1480 	GTAACTCCTT	GTAACTCCTT	GTAACTCCTT	GTAACTCCTT	GTAACTCCTT	GTAACTCCTT
1470	TATAACATAT	TATAACATAT	TATAACATAT	TATAACATAT	TATAACATAT	'TATAACATAT
1460 	GAAACTCCAT	GAAACTCCAT	GAAACTCCAT	GAAACTCCAT	GAAACTCCAT	GAAACTCCAT
1450 	тсататттст	TCATATTTCT	TCATATTTCT	TCATATTTCT	TCATATTTCT	TCATATTTCT
1440 	AATTCCCTTG	AATTCCCTTG	AATTCCCTTG	AATTCCCTTG	AATTCCCTTG	AATTCCCTTG
1430	TTAAGCTAAA	TTAAGCTAAA	TTAAGCTAAA	TTAAGCTAAA	TTAAGCTAAA	TTAAGCTAAA
1420 	GAAGAGACAC	GAAGAGACAC	GAAGAGACAC	GAAGAGACAC	GAAGAGACAC	GAAGAGACAC
1410	A TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTAGG	B TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTTCCTTTGTAACCAAAATTTAGG	C TCAGCAAAGCCCTGAAGAGACACTTAAAGCTAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTAGG	D TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTAGG	E TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCCTTTGTAACCAAAATTTAGG	F TCAGCAAAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCTTTTGTAACCAAAATTTAGG
	A.	Щ	J	Н	щ	1 <u>T</u> 4

Fig. 11X-5

1600	ΑT	ΑT	ΑT	ΑT	AT	AT
16	TCACA	TCACA	TCACA	TCACA	TCACA	TCACA
1590	A TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTTGAGTACCTGGCTGTATTTGTTGAGTATTTTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAAT	B TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTTGAGTACCTGGCTGTATTTGTTGATTTTTTAAAATTTTTGGATAGTCTCTTAGGCAACAATAATCACAAT	C TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTTGAGTACCTGGCTGTATTTTGTTGAGTATTTTTAAAATTTTTGGATAGTCTCTTAGGCAACAATAATCACAAT	D TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTTTTGTTTG	E TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTTGAGTACCTGGCTGTATTTGTTGAGTATTTTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAAT	F TAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTTTTTTTGTTGAGTATTTTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAAT
15	3GCAAC	3GCAAC	3GCAAC	3GCAAC	3GCAAC	3GCAAC
1580	TCTTA(TCTTA(TCTTA(TCTTA(TCTTA(TCTTA(
\leftarrow	TAGTC	TAGTC	TAGTC	TAGTC	TAGTC	TAGTC
1570	rtrgg/	rttgg/	rttgg2	PTTGG?	rttgg/	rttgg2
	AAAAT.	AAAAT.	AAAAT.	AAAAT.	AAAAT.	AAAAT
1560	TTTT	TTTT	TTTT	TTTT	TTTT	TTTT
	IGAGTA	IGAGTA	IGAGTA	IGAGTA	IGAGTA	rgagta
1550	PTTGT	PTTGT	PTTGT	$\Gamma \Gamma \Gamma G \Gamma'$	PTTGT	rttgti
	СТСТА	CTGTA'	CTGTA'	CTGTA	CTGTA	CTGTA
1540	CCTGG	CCTGG	CCTGG	CCTGG	CCTGG	CCTGG
_	GAGTA	GAGTA	GAGTA	GAGTA	GAGTA	GAGTA
1530	GTTT	GTTT	GTTT	GTTT	GTTT	GTTT
0 -	TGAAG	TGAAG	TGAAG	TGAAG	TGAAG	CTGAAG
1520	PTGCT	PTGCT(LTGCT(PTGCT(PTGCT(rtgct(
0	PTCCT	PTCCT	PTCCT	PTCCT	PTCCT.	I'TCCT'.
1510	CAGGC	CAGGC	CAGGC	CAGGC	CAGGC	CAGGC'
	TAAG	TAAG	TAAG	TAAG	TAAG	TAAG
	Ø	ш	ပ	Ω	떠	ĹΤι

1700	AGAACTGG	AGAACTGG	AGAACTGG	AGAACTGG	AGAACTGG	AGAACTGG
1690	ACATTGATCT	ACATTGATCT	ACATTGATCT	ACATTGATCT	ACATTGATCT	ACATTGATCT
1680	3ATTGGCÀTC	SATTGGCATC	SATTGGCATC	SATTGGCATC	3ATTGGCATC	SATTGGCATC
1670	SCCTGGCACT	SCCTGGCACT	SCCTGGCACT	SCCTGGCACT	SCCTGGCACT	SCCTGGCACT
1660	acccaagga	ACCCCAAGGA	ACCCCAAGGA	ACCCCAAGGA	ACCCCAAGGA	ACCCCAAGGA
1650 	CAGCCTACTG	CAGCCTACTG	CAGCCTACTG	CAGCCTACTG	CAGCCTACTG	CAGCCTACTG
1640	ATACCAGGCA	ATACCAGGCA	ATACCAGGCA	ATACCAGGCA	ATACCAGGCA	ATACCAGGCA
1630	BAGAAAGCĊTG	SAGAAAGCCTG	BAGAAAGCCTG	BAGAAAGCCTG	BAGAAAGCCTG	BAGAAAGCCTG
1620	TCAGTTCTGG	TCAGTTCTGG	TCAGTTCTGG	TCAGTTCTGG	TCAGTTCTGG	TCAGTTCTGG
1610	A ATATTCATCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG	B ATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG	C ATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG	D ATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG	E ATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG	F ATATTCATCCCTTCAGTTCTGGAGAAAGCCTGATACCAGGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAGAACTGG

1710	1720	1730	1740	1750	1760	1770	1780	1790 	1800
		 4agagaaggg	I TGCTCAGGGA	 \aacattggct	, 3GGGCACG	 GAATAAGCACA	 TAGTAAAAAG	GBACATCAG	GGTCAAA
CGCCG	B TCCAGCCGCCGAAGAGAGAAAAGAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCCACGGAATAAGCACATAGTAAAAAGGGAACATCAGGGTCAAA	AAGAGAAGGGC	TGCTCAGGGA	AACATTGGCT	3GGGGCACG	GAATAAGCACA	TAGTAAAAAG	GGAACATCAG	GGTCAAA
CGCCG	C TCCAGCCGCCGAAGAGAGAAAAAAAAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGGTCAAA	AAGAGAAGGGC	TGCTCAGGGA	AACATTGGCT	3GGGCCACG	GAATAAGCACA	TAGTAAAAAG	GGAACATCAG	GGTCAAA
CGCCG	D TCCAGCCGCCGAAGAGAGAAAAAAAAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGGTCAAA	AAGAGAAGGGC	TGCTCAGGGA	AACATTGGCT	3GGGCCACG	SAATAAGCACA	TAGTAAAAAG	3GAACATCA 6	GGTCAAA
CGCCG	E TCCAGCCGCCGAAGAGAGAAAAGAGAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGGTCAAA	AAGAGAAGGGC	TGCTCAGGGA	AACATTGGCT	3GGGCCACG	SAATAAGCACA	TAGTAAAAAG	3GAACATCA 6	GGTCAAA
CGCCG	F TCCAGCCGCCGAAGAGAGAAAAAAAAAAAAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCCACGGAATAAGCACATAGTAAAAAAGGGAACATCAGGGTCAAA	AAGAGAAGGGC	TGCTCAGGGA	AACATTGGCT	3GGGGCACG	GAATAAGCACA	TAGTAAAAAG	GGAACATCAG	GGTCAAA

Fig. 11X-6

1900	IGTICICC	IGTICICC	IGTTCTCC	TGTTCTCC	TGTTCTCC	TGTTCTCC
1890	GTACCCTGGC	GTACCCTGGC	GTACCCTGGC	GTACCCTGGC	GTACCCTGGC	GTACCCTGGC
1880	AAGTCTTGGA	AAGTCTTGGA	AAGTCTTGGA	AAGTCTTGGA	AAGTCTTGGA	AAGTCTTGGA
1870	AGAGGAAGAC	AGAGGAAGAC	AGAGGAAGAC	AGAGGAAGAC	AGAGGAAGAC	AGAGGAAGAC
1860	AAGGCAAGAA	AAGGCAAGAA	AAGGCAAGAA	AAGGCAAGAA	AAGGCAAGAA	AAGGCAAGAA
1850	CACTGGAAGA	CACTGGAAGA	CACTGGAAGA	CACTGGAAGA	CACTGGAAGA	CACTGGAAGA
1840	rcatttggcc?	CATTTGGCC?	PCATTTGGCC?	PCATTTGGCC?	CATTTGGCC?	rcatttggcc <i>p</i>
1830	AACAGGGAĞTT	AACAGGGAGTT	AACAGGGAGTT	AACAGGGAGT.	AACAGGGAGTT	AACAGGGAGTI
1820	TGAGACAGĠA	TGAGACAGGA	TGAGACAGGA	TGAGACAGGA	TGAGACAGGA	TGAGACAGGA
1810	A TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAAGAGAAGACAAGTCTTGGAGTACCCTGGCTGTTCTCC	B TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAGA	C TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACTGGAAGAAAGA	D TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCCAAGAAAGA	E TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAGA	F TGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTTGGCCACACTGGAAGAAAGGCAAGAAAGA
	K	В	ט	О	臼	ĹΈų

2000	AGAC	AGAC	AGAC	AGAC	AGAC	AGAC
	AAGGA	AAGGA	AAGGA	AAGGA	AAGGA	AAGGA
1990 	AAACCAT	AAACCAT	AAACCAT	AAACCAT	AAACCAT	AAACCAT
1980	TAAGAATAATT	TAAGAATAATT	TAAGAATAATT	TAAGAATAATT	TAAGAATAATT	TAAGAATAATT
1970	rgtgttttgag	rgtgttttgag'	rgtgttttgag'	rgtgttttgag'	rgtgttttgag'	rgtgttttgag'
1960	SATGCCTTT	SATGCCTTT.	SATGCCTTT	SATGCCTTT	SATGCCTTT	SATGCCTTT
1950	AGAGAAAAGA(AGAGAAAAGA(AGAGAAAAGA(AGAGAAAAGA(AGAGAAAAGA(AGAGAAAGA(
1940	TGCATAÄGAA	IGCATAAGAA	<i>PGCATAAGAA</i>	IGCATAAGAA	TGCATAAGAA	TGCATAAGAA
1930	CTCTGCTTGG	CTCTGCTTGG'	CTCTGCTTGG'	CTCTGCTTGG	CTCTGCTTGG	CTCTGCTTGG
1920	ATCAGCTATA	ATCAGCTATA	ATCAGCTATA	ATCAGCTATA	ATCAGCTATA	ATCAGCTATA
1910	A ACACTCACAAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA	B ACACTCACAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA	C ACACTCACAAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA	D ACACTCACAAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA	E ACACTCACAAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA	F ACACTCACAAGACATCAGCTATACTCTGCTTGGTGCATAAGAAAGA
			_			

A CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT
B CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTGTTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT
C CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTGTTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT
D CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTGTCTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT
E CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT
F CATGTATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTGTCTAATAACAATGTAGCACAGTAATGACTGTACATGTCATTGT

Fig. 11X-7

2200 	TTAGCATG	TAGCATG	LTAGCATG	TTAGCATG	TAGCATG	TTAGCATG
2190 	TTTTGGCTCC'	TTTTGGCTCC'	TTTTGGCTCC'	TTTGGCTCC	TTTGGCTCC	TTTTGGCTCC'
2180	GTTTCATCAT	GTTTCATCAT	GTTTCATCAT	GTTTCATCAT	GTTTCATCAT	GTTTCATCAT'
2170 	GCATTCCTAG	SCATTCCTAG	SCATTCCTAG	SCATTCCTAG	SCATTCCTAG	GCATTCCTAG
2160	TTCTGCTTCT	PTCTGCTTCT	PTCTGCTTCT	PTCTGCTTCT	PTCTGCTTCT	ITCTGCTTCT(
2150	CAACACTAAG	CAACACTAAG	CAACACTAAG	CAACACTAAG	CAACACTAAG	CAACACTAAG
2140	rttttatta(LTTTTTATTA(гтттттатта(гтттттатта(PTTTTTA	ቦፕፕፕፕፕ <mark>ጉ</mark> ፕጵር
2130	тааатсата	STAAATCATA?	TAAATCATA	TAAATCATA!	STAAATCATA:	ЭТАААТСАТА ?
2120	AAGATTGTTG	AAGATTGTTG	AAGATTGTTG	AAGATTGTTG	AAGATTGTTG	AAGATTGTTG
2110	A ATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTTATACACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG	B ATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTTATACACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG	C ATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTTATTACAACACTAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG	D ATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTATACAACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG	E ATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTTACAACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG	F ATGTATACCAAACAAGATTGTTAAATCATATTTTTTTTACAACACTAAGTTCTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATG
	A A	BA	ς V	DA	E	FI A

2400	GGTGG	GGTGG	GGTGG	GGTGG	GGTGG	GGTGG
2390	AGGCTGAGTCTA	AGGCTGAGTCTA	AGGCTGAGTCTA	AGGCTGAGTCTA	AGGCTGAGTCTA	AGGCTGAGTCTA
2380	AAGGGAAGAA	AAGGGAAGAA	AAGGGAAGAA	AAGGGAAGAA	AAGGGAAGAA	AAGGGAAGAA
2370	TACCGTTGAG	TACCGTTGAG	TACCGTTGAG	TACCGTTGAG	TACCGTTGAG	TACCGTTGAG
2360	GGATAAĞTGC	GGATAAGTGC	GGATAAGTGC	GGATAAGTGC	GGATAAGTGC	GGATAAGTGC
2350	TGTTGGGAAA	TGTTGGGAAA	HGTTGGGAAA	TGTTGGGAAA	TGTTGGGAAA	TGTTGGGAAA
2340 	PCTCTGACTG	TCTCTGACTG	TCTCTGACTG	TCTCTGACTG	TCTCTGACTG	TCTCTGACTG
2330	agatacaagi	AGATACAAG1	AGATACAAGT	AGATACAAG1	AGATACAAGT	AGATACAAGT
2320	TAGCCGGTGG	TAGCCGGTGG	TAGCCGGTGG	TAGCCGGTGG	TAGCCGGTGG	TAGCCGGTGC
2310	GGAATTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGAAGAAAGGCTGAGTCTAGGTGG	GGAATTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGAAAGGAAAAAGGCTGAGTCTAGGTGG	GGAATTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGAAG	GGAATTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGAAGAAAGGCTGAGTCTAGGTGG	GGAATTATATTATATTAGGAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGAAG	GGAATTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGAAGAAAGGCTGAGTCTAGGTGG

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	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
									_	_
A A	A AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACAGAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAAGTGTAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	TCCTAATCCT	rctgttttga	GAAGAGAGAA	CTGTAGT
B	B AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACAGAAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAACTGTAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	TCCTAATCCT"	CTGTTTTGA	GAAGAGAGAA	CTGTAGT
ربر ان	C AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACAGAAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAACTGTAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	TCCTAATCCT	PUTGTTTGA	GAAGAGAGAA	CTGTAGT
D	D AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACAGAAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAACTGTAAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	TCCTAATCCT	CTGTTTGA	GAAGAGAGAA	CTGTAGT
日	E AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACAGAAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAACTGTAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	PCCTAATCCT	PCTGTTTTGA	GAAGAGAGAA	CTGTAGT
F 7	F AGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCCAGAACTCAGACAACAGAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAAGAACTGTAGT	AGAACTCTAGO	CCAAAGGCAA	GCCCCAGAAC	TCAGACAAC	AGAAAGGAAA	TCCTAATCCT	rctgtttga	GAAGAGAGAA	CTGTAGT

2600 TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTTCTTTAGTAGACAGTTTAATTTCCCCCA TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCA TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTTCTTTAGTAGACAGTTTAATTTCCCCCA TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCCA TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCA TGCTTCACTTCCTATTTCATGACAGAATAACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCA 2590 2580 2570 2560 2550 2540 2530 2520 2510 $\mathbf{\alpha}$ UA

AGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCAATGGCCTGGGGTGGGGAGTGGGGAGTAGAGATAGGGAATATGTGGGATTTGGTTTAAGTTCA AGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGAGATAGGGAATATGTGGGATTTGGTTTAAGTTCA

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AGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGAGATAGGGAATATGTGGGATTTGGTTTAAGTTCA

AGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGATAGGGAATATGTGGGATTTGGTTTAAGTTCA

AGATTAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGAGATAGGGAATATGTGGGATTTGGTTTAAGTTCA

	2800	ATTTAG	ATTTAG	ATTTAG	ATTTAG	ATTTAG	ATTTAG
2720 2730 2740 2750 2760 2770 2780	2790 	AAGGCAATGAAA	AAGGCAATGAAA	AAGGCAATGAAA	AAGGCAATGAAA	AAGGCAATGAAA	aaggcaatgaaa
2710 2720 2770	2780 	TTAAAAAAA	TTAAAAAAA	TTAAAAAAA	TTAAAAAAAA	TTAAAAAAAA	TTAAAAAAA
2720 2730 2740 2750 2760	2770	TGGCATGCTT	TGGCATGCTT	TGGCATGCTT	TGGCATGCTT	тессатестт	TGGCATGCTT
2710 2720 2730 2740 2750	2760	PAGATAGCAG	PAGATAGCAG	TAGATAGCAG	PAGATAGCAG	PAGATAGCAG	ragatagcag'
2710 2720 2730 2740	2750 	IGATCTTTAT	IGATCTTTAT	IGATCTTTAT	IGATCTTTAT	IGATCTTTAT	rgatctttat!
2710 2720 2730	2740 	TAGATAAATG	ТАСАТАААТС'	TAGATAAATG	TAGATAAATG	TAGATAAATG	TAGATAAATG
2710 2720	2730	CTTGCAAGCT	CTTGCAAGCT	CTTGCAAGCT	CTTGCAAGCT	CTTGCAAGCT	CTTGCAAGCT
2710	2720	этгсствватс	STTCCTGGATC	STTCCTGGATC	TTCCTGGATC	TTCCTGGATC	HTCCTGGATC
	2710	PCATTGGGAGAC	PCATTGGGAGAG	PCATTGGGAGAG	CATTGGGAGAG	CATTGGGAGAG	rcattgggagag
		Ā	ω _	ပ	U J	H	لينا

2820
A CAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA
B CAAGCCACTGAATTTGAGTTTTCACTTTGTTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA
C CAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA
D CAAGCCACTGAATTTGAGTTTTCACTTTGTTTTCTAATATGCTGTGTGAATCAGTACAGTTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA
E CAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGAATCAGTACAGTTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA
F CAAGCCACTGAATTTGAGTTTTCACTTTGTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAA

3000	TTGTGGA	TTGTGGA	TTGTGGA	TTGTGGA	TTGTGGA	TTGTGGA
2990 -	GAGAAGCATT	GAGAAGCATT	GAGAAGCATT	GAGAAGCATT	GAGAAGCATT	GAGAAGCATT
2980 -	TAGACATTAG	TAGACATTAG	TAGACATTAG	TAGACATTAG	TAGACATTAG	TAGACATTAG
2970 	TCAATGGCAT	TCAATGGCAT	TCAATGGCAT	TCAATGGCAT	TCAATGGCAT	TCAATGGCAT
2960	CTCTATGTATC	CTCTATGTAT	CTCTATGTATC	CTCTATGTATC	стстатстатс	тстатстат
2950	AATAACATTC	AATAACATTC(AATAACATTC	AATAACATTC	AATAACATTC(AATAACATTC
2940 	GCACATATTA	GCACATATTA	GCACATATTA	GCACATATTA	GCACATATTA	GCACATATTA
2930	<u> АААААТТАТ</u> Т	АААААТТАТТ	а <i>ааааа</i> ттатт	А <i>АААА</i> ТТАТ1	AAAAAATTATT	AAAAATTATI
2920	тасстатстс	TACCTATCTC,	TACCTATCTC.	TACCTATCTC.	TACCTATCTC.	ласстатстс,
2910	A TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA	B TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA	C TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA	D TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA	E TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA	F TGGGGTAGTAATACCTATCTCAAAAATTATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACATTAGGAGAAGCATTTGTGGA
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Fig. 11X-10

3100	ATT	ATT	ATT	ATT	ATT	ATT
χ.	A GGATITIGAAGITIGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATT	B GGATITIGAAGITIGAGATCITICATCCAAGAAGIAGCTITITICAATITIGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATT	C GGATITIGAAGITIGAGATCITICATCCAAGAAGIAGCTITITICAATITIGCIAGAAGCITIAAIGIAGGCAAGCCACITICATITITICAGAACITIGITIACICATIT	D GGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTAGAACTTGTTTACTCATT	E GGATITIGAAGITIGAGATCITICATCCAAGAAGTAGCTITITICAATITIGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTTAGAACTTGTTTACTCATT	F GGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTCAGAACTTGTTTACTCATT
06	TGTTI	TGTTI	TGTTI	TGTTI	TGTTI	TGTTI
3090	AACT"	'AACT	'AACT'	'AACT'	AACT	AACT'
0 -	PTCAG	LTCAG	rtcag	rtcag	FTCAG	rtcag
3080	ATTT	ATTT	ATTT	ATTT	ATTT	ATTT
	CTTC	CTTC	CTTC	CTTC	CTTC	CTTC
3070	AGCC1	AGCC1	AGCC?	AGCC?	AGCC?	AGCC?
	GGCA	GGCA	GGCA	GGCA	GGCA	GGCA
3060	ATGTA	ATGTA	ATGTA	ATGTA	ATGTA	ATGTA
3(CTTA	CTTA	CTTA	CTTA	CTTA	CTTA
0.—	AGAAG	GAAG	GAAG	GAAG	GAAG	IGAAG
3050	TGCT2	TGCT2	TGCT?	TGCT?	TGCT?	TGCT?
	AATT"	AATT"	AATT"	AATT	AATT	AATT
3040 	PTTC	PTTT	PTTT	PTTT	PTTT	PTTC
	TAGCT	TAGCT	TAGCT	TAGCT	TAGCT	TAGCT
3030	GAAG	GAAG'	GAAG	GAAG'	GAAG	GAAG
m	CCAA	CCAA	CCAA	CCAA	CCAA	CCAA
0	r <u>r</u> ca1	rtca1	PTCAT	FTCAT	PTCAT	rtcai
3020	GATC	GATC	GATC	GATC	GATC	GATC
	TTGA	TTGA	TTGA	TTGA	TTGA	TTGA
3010	rgaag	rgaag	rgaag	rgaag	IGAAG	rgaag
	3ATT1	3ATT1	3ATT1	3ATT1	BATTI	3ATT1
	A Q	<u>м</u>	<u>ထ</u>	ъ Б	E O	Fi Q

	3110	3120	3130	3140	3150	3160	3170	3180	3190	3200
Æ	A TATAATATGGGAATAAAAATTTGTGCAAGTCAGAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACCTTTTTCATGACCTCA	AAAAATTTG	rgcaagtcag;	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGAC?	CACTTTTCAT	GACCTCA
Æ	B TATAATATGGGAATAAAATTTGTGCAAGTCAGAGAGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACCTTTTTCATGACCTCA	AAAAATTTG	TGCAAGTCAG	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGAC?	CACTTTTCAT	GACCTCA
Æ	C TATAATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACCCTTTTCATGACCTCA	AAAAATTTG	rgcaagtcag;	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGAC?	CACTTTTCAT	GACCTCA
₹.	D TATAATATGGGAATAAAATTTGTGCAAGTCAGAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACCTTTTCATGACCTCA	AAAAATTTG!	IGCAAGTCAG	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGACA	ACACTTTTCA1	GACCTCA
Æ	E TATAATATGGGAATAAAATTTGTGCAAGTCAGAGAGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAAAAATGTTTTATGACCTCA	AAAAATTTG	IGCAAGTCAG	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGACA	SCACTTTTCAT	GACCTCA
Ą	F TATAATATGGGAATAAAATTTGTGCAAGTCAGAGAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAAAGACACCTTTTCATGACCTCA	AAAAATTTG	rgcaagtcag;	AGAAGGGTGC	CTTAAAAATG	TTGTGGCCAA	GCCACATGAGA	ATCAAAGACA	ACACTTTTCAI	GACCTCA

B AATGIGGGCCCAGCCTAGGTCAGCCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGCCACCCTAGATCAGCTGAAACT	B AATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGAAACT C AATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGAAACT	B AATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGGCCACCCTAGATCAGCTGAAACT C AATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGGAGGCCACCCTAGATCAGCTGAAACT D AATGTGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGAAACT	B AATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGGCCACCCTAGATCAGCTGAAACT C AATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGAAACT D AATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCACCCTAGATCAGCTGAAACT E AATGTGGGCCCAGCCTAGGTCAGCCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGCCACCCTAGATCAGCTGAAACT
AGATCAGCAGAGCCACC	AGATCAGCAGAGCCACC AGATCAGCAGAGCCACC	AGATCAGCAGAGCCACCO AGATCAGCAGGCCACCO AGATCAGCAGAGCCACCO	AGATCAGCAGAGCCACCO AGATCAGCAGAGCCACCO AGATCAGCAGAGCCACCO AGATCAGCAGAGCCACCO
заасааатссасства	3AACAAATCCACCTGA 3AACAAATCCACCTGA	BAACAAATCCACCTGA BAACAAATCCACCTGA BAACAAATCCACCTGA	SAACAAATCCACCTGA SAACAAATCCACCTGA SAACAAATCCACCTGA SAACAAATCCACCTGA
CCCTTAGACTCACG	CCCTTAGACTCACG CCCTTAGACTCACG	CCCTTAGACTCACG; CCCTTAGACTCACG; CCCTTAGACTCACG;	CCCTTAGACTCACG CCCTTAGACTCACG CCCTTAGACTCACG
CAACCCCCATCCAA	CAACCCCATCCAA CAACCCCCATCCAA	CAACCCCATCCAA CAACCCCCATCCAA CAACCCCCATCCAA	CAACCCCATCCAA CAACCCCATCCAA CAACCCCATCCAA
CAGCCTAGGTCAGC	CAGCCTAGGTCAGC CAGCCTAGGTCAGC	CAGCCTAGGTCAGC CAGCCTAGGTCAGC CAGCCTAGGTCAGC	CAGCCTAGGTCAGC CAGCCTAGGTCAGC CAGCCTAGGTCAGC
3 AATGTGGGCCC	B AATGTGGGCCC	B AATGTGGGCCC C AATGTGGGCCC D AATGTGGGCCC	B AATGTGGGCCCC C AATGTGGGCCCC D AATGTGGGCCCC

3400 	CCTTC	CCTTC	CCTTC	CCTTC	CCTTC	CCTTC
3390	AATCTCCATCTGG	AATCTCCATCTGG	AATCTCCATCTGG	AATCTCCATCTGG	AATCTCCATCTGG	AATCTCCATCTGG
3380	TAACTGATGC	PACTGATGC.	PAACTGATGC	LAACTGATGC	PAACTGATGC)	TAACTGATGC.
3370 	PAGCAAAATC	PAGCAAAATC	FAGCAAAATC	FAGCAAAATC	PAGCAAAATC	PAGCAAAATC.
3360	STCTCTCGTA	этстстсета?	этстстсета:	STCTCTCGTA	STCTCTCGTA!	STCTCTCGTA
3350	<i>AAAAAAAAA</i>	AAAAAAAAA(AAAAAAAAA(AAAAAAAAA	AAAAAAAAA	aaaaaaaaa
3340	<i>JAAAAAAAAA</i>	AAAAAAAAA	<i>LAAAAAAAA</i>	aaaaaaaaa	JAAAAAAAA	aaaaaaaa
3330	ATCACTGTAA	ATCACTGTAA!	ATCACTGTAA!	ATCACTGTAA	ATCACTGTAA!	ATCACTGTAAA
3320	YTAAAAACTT	YTAAAAACTT?	ATAAAAACTT#	ATAAAAACTT?	YTAAAAACTT?	ataaaactti
3310 	A CTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAAAA	B CTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAAAA	C CTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAAAA	D CTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAAAA	E CTAAGCACAAAAATAAAAAACTTATCACTGTAAAAAAAAA	F CTAAGCACAAAAATAAAAACTTATCACTGTAAAAAAAAAA
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3500 	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA
	IAAAAA	IAAAAA	IAAAAA	IAAAAA	IAAAAA	IAAAAA
3490 	YKCTTTN	YKCTTTE	YKCTTTN	YKCTTTE	YKCTTTE	YKCTTTN
3480 	AGATTCTGTCA	адаттстдтса	AGATTCTGTCA	AGATTCTGTCA	AGATTCTGTCA	AGATTCTGTCA
3470	AAACATTAAAC	AAACATTAAAC	AAACATTAAAC	AAACATTAAAC	AAACATTAAAC	AAACATTAAAC
3460	I TCTTGTTA	TCTTGTTA	TCTTGTTA	ATCTTGTTA	тсттетта	TCTTGTTA
3450 I	I AACCAGGATGA	AACCAGGATGA	AACCAGGATGA	AACCAGGATGA	AACCAGGATGA	AACCAGGATGA
3440	I TTCATCCAGO	TTCATCCAGO	TTCATCCAGO	TTCATCCAGO	TTCATCCAGC	TTCATCCAGO
3430	I PCGTGTATTG	PCGTGTATTG	PCGTGTATTG	PCGTGTATTG	PCGTGTATTG	PCGTGTATTG
3420	I ATTGTCCTT:	ATTGTCCTT!	ATTGTCCTT.	ATTGTCCTT	ATTGTCCTT	ATTGTCCTT
3410		B ATCCTTCTCCCTTTATGTCCTTTCGTGTATTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAA	C ATCCTTCTCCCTTTATTGTCCTTTTCGTGTGTTTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAA	D ATCCTTCTCCCTTTATTGTCCTTTTCGTGTGTTTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAA	E ATCCTTCTCCCTTTATTGTCCTTTTCGTGTGTTTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAA	F ATCCTTCTCCCTTTATTGTCCTTTCGTGTGTTTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCAYKCTTTMAAAAAAAA
	A A	B A	C A	D A	E A	F A

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3600	3590	3580	3570	3560	3550	3540	3530	3520	3510

A AAAGCCATGAAATTNTAGCAAGCCACTGAATTTGAGTTTTCACTTTGGTTTCTAATATGCTGTGTGAATCAGANCAGKITTCTTTTTTTTTTTTTGGTTTTTTTTTTT

3700	AGACATT	AGACATT	AGACATT	AGACATT	AGACATT	AGACATT
3690 	CAATGGCATT	CAATGGCATT	CAATGGCATT	CAATGGCATT	CAATGGCATT	CAATGGCATT
3680	CTATGTATCT	CTATGTATCT	rctatgtatct	rctatgtatct	ICTATGTATCT	ICTATGTATCI
3670 	ATAACATTCC	ATAACATTCC	ATAACATTCCT	ATAACATTCC	ATAACATTCC	ATAACATTCCI
3660 	CACATATTAR	CACATATTAR	CACATATTAR	CACATATTAR	CACATATTAR	CACATATTAR
3650	AAAATTATTG	AAAATTATTG	AAAATTATTG	AAAATTATTG	AAAATTATTG	AAAATTATTG
3640	CCTATCTCAA	CCTATCTCAA	CCTATCTCAA	CCTATCTCAA	CCTATCTCAA	сстатстсаа
3630	GGTWGTAATA	GGTWGTAATA	GGTWGTAATA	GGTWGTAATA	GGTWGTAATA	GGTWGTAATA
3620	GATAAAATGG	GATAAAATGG	GATAAAATGG	GATAAAATGG	GATAAAATGG	GATAAAATGG
3610	A AATTICCTIACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCATTAGACATT	B AATITICCTTACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCATTAGACATT	C AATITICCTTACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTAATGGCATTAGACATT	D AATTICCTIACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCATTAGACATT	E AATTTCCTTACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCATTAGACATT	F AATTICCTIACTGATAAAATGGGGTWGTAATACCTATCTCAAAAATTATTGCACATATTARATAACATTCCTCTATGTATCTCAATGGCATTAGACATT
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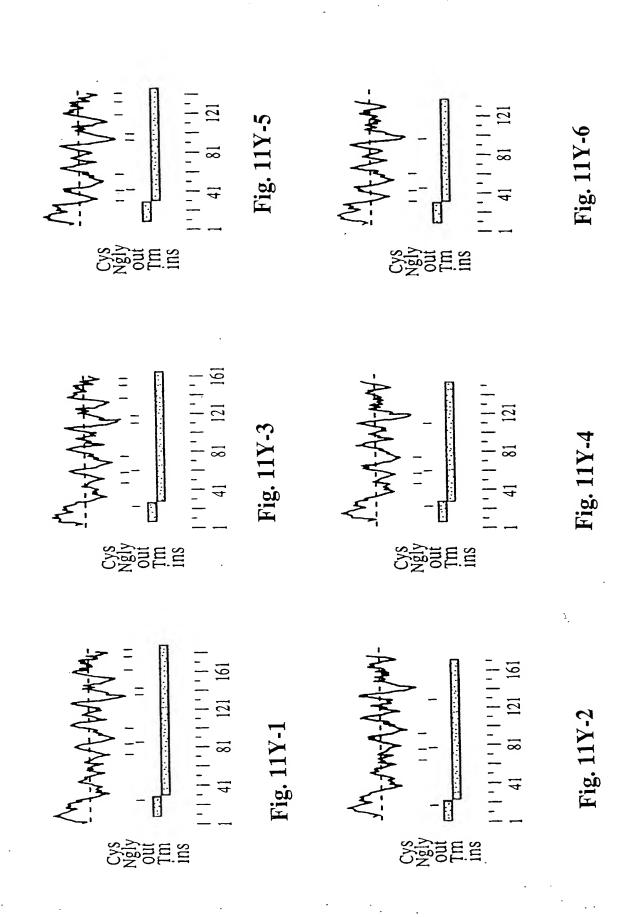
	3710	3720	3730	3740	3750	3760	3770	3780	3790	3800
ø	A AGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCAATTTTTTT	TGTGGAGGAT"	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	'TTGSTAGAAGC'	TTAATGTAG	GCAAGCCACTI	CATTTT
Д	B AGGAGAAGCATTTTGTGGAGGATTTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTT	PGTGGAGGAT	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	TTGSTAGAAGC	TTAATGTAG	GCAAGCCACTI	CATTTT
ပ	C AGGAGAAGCATTTTGTGGAGGATTTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTT	PGTGGAGGAT"	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	TTGSTAGAAGC	TTAATGTAG	GCAAGCCACTI	CATTTT
Ω	D AGGAGAAGCATTTTGTGGAGGATTTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTT	PGTGGAGGAT!	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	TTGSTAGAAGC	TTAATGTAG	GCAAGCCACTI	CATTTTT
団	E AGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTT	rGTGGAGGAT"	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	TTGSTAGAAGC	TTAATGTAG	GCAAGCCACTI	CATTTT
[x	F AGGAGAAGCATTTGAAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGSTAGAAGCTTAATGTAGGCAAGCCACTTCATTTTT	"GTGGAGGAT"	TTGAAGTTGA	GATCTTCATC	CAAGAAGTAG	CTTTTCAAT	TTGSTAGAAGC	TTAATGTAG	GCAAGCCACTI	CATTTT

3900 CAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGA CAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGTCAGAGAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGA CAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAAATGTTGTGGCCAAGCCACATGATGATCAAAGA CAGAACTTGTTTACTCATTTAATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGA CAGAACTTGTTTACTCATTTATAATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGA CAGAACTTGTTTACTCATTTAATATATGGGAATAAAATTTGTGCAAGTCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGA 3890 3880 3870 3860 3850 3840 3830 3820 3810 m U ΩЮ

Fig. 11X-13

	3910	3920	3930	3940	3950	3960	3970	3980	3990	4000
A B O O B F	A CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGGCCA B CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCA C CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCA D CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCA E CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGCCA F CACACTITICATGACCTCAAATGTGGGCCCAGCCTAGGTCAGCCAACCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGGCCA F CACACTITICATGACCTCAAATGTGGGCCCAGGCCTAGGTCAGCCCATCCAACCCTTAGACTCACGAACAAATCCACTGAGATCAGCAGGCCA F CACACTITICATGACCTCAAATGTGGGCCCAGGCCTAGGTCAGCCCATCCAACCCTTAGACTCACGAACAAATCCACTGAGATCAGCAGAGCCA	CCTCAAATGT CCTCAAATGT CCTCAAATGT CCTCAAATGT CCTCAAATGT	GGGCCCAGCC GGGCCCAGCC GGGCCCAGCC GGGCCCAGCC	TAGGTCAGCC TAGGTCAGCC TAGGTCAGCC TAGGTCAGCC TAGGTCAGCC	AACCCCATC AACCCCCATC AACCCCCATC AACCCCCATC AACCCCCATC	DAACCCTTAC CAACCCTTAC CAACCCTTAC CAACCCTTAC	 sactcacgaac; sactcacgaac; sactcacgaac; sactcacgaac;	AAATCCACCT AAATCCACCT AAATCCACCT AAATCCACCT AAATCCACCT	 IGAGATCAGCA IGAGATCAGCA IGAGATCAGCA IGAGATCAGCA	SAGCCA SAGCCA SAGCCA SAGCCA SAGCCA
A M O O E F		4020	4030 	4040	4050 	4060 	4070 \aaaaaaaagaa. \aaaaaaaagaa. \aaaaaaaagaa.	4080	4090 10000000000 10000000000 10000000000	

Fig. 11X-14



60 120 180 230	278	326	374	422	470
TGTGAACAAG TGCACCGAAT AGATCAGATC CTT ATC Leu Ile 10	TAT TTC Tyr Phe	GAG AGC Glu Ser	AGA AAT Arg Asn	CCC AGA Pro Arg 75	TCC GAA Ser Glu 90
	CTG Leu 25	ACG Thr	GGG G1γ	TGT Cys	TTC Phe
GCGTCCGGTT TGCTTGGAGA TGCTGCTAAA ACAGAGAGGC AGCAGGAGCA TACATTCAGA AGACAAGGAG CCCTGCTCGC AAAGACTCCT ATCTGTATGC CAACCCAGAC TTCCAGAAAG CATCATC ATG AAC TGG CAC ATG ATC ATC TCG GGG CATCATC ATG AAC TGG CAC ATG ATC ATC TCG GGG	CTG Leu	CCC Pro 40	TTT Phe	GTC Val	TCC
ACAG CCCT TTCC ATC T	TTT Phe	GTC Val	ATC Ile 55	ACA Thr	TTC Phe
AAA GAG GAC TTC A	TTT Phe	TTC Phe	CAG Gln	GGA G1 <u>y</u> 70	TTC Phe
TGCTGCTAAA AGACAAGGAG CAACCCAGAC C ATG ATC A S Met Ile I	ACC Thr	GGC Gly	TCA Ser	\mathtt{TAT}	TTT Phe 85
TGCTTGGAGA TGCTGCTAAA TACATTCAGA AGACAAGGAG ATCTGTATGC CAACCCAGAC AAC TGG CAC ATG ATC A	ATG Met 20	GAT Asp	GTC Val	AGC Ser	TGC Cys
CGGAGA TTCAGA TTGG C TGG C	GGA Gly	AAT Asn 35	AAT Asn	AGG Arg	AAA Lys
TGCTTGGAGA TACATTCAGA ATCTGTATGC AAC TGG CA	GTT Val	AGT Ser	CAG Gln 50	ACA Th <i>r</i>	GGA Gly
7B • 1	GTT Val	AAA Lys	GTG Val	CCT Pro 65	CAA Gln
CGGT CTCC NTC A	AAA Lys	GGC Gly	AGT Ser	ATG Met	CAC His 80
GCGTCCGGTT AGCAGGAGCA AAAGACTCCT CATCATC ATG	ATC Ile 15	TTT Phe	ACT Thr	ACC Thr	TTT Phe
	GTG Val	GTT Val 30	ACC Thr	AGT Ser	GAT Asp
GTCGACCCAC GACATTACCG ATCTTATCAA CCTGAATCCC	GTA Val	CAG Gln	GGA G1 <i>Y</i> 45	GAA Glu	TGG Trp
GTCG GACP ATCT CCTG	GTA Val	CCA Pro	TAC Tyr	GAC Asp 60	AAC Asn

Fig. 11Z-1

518	566	614	662	710	758
ACA Thr	ATA Ile	GAG Glu	ACC Thr 155	ACA Thr	ATG Met
TCC Ser	GAC Asp	GGA Gly	GTT Val	AAG Lys 170	GAA Glu
GGA G1 <i>Y</i> 105	CAG Gln	CCT	AAT Asn	ACG Thr	TGC Cys 185
CAA Gln	CTT Leu 120	CAG Gln	GGC Gly	CTG	ATC Ile
ACA Thr	$\mathtt{TAT}\\ \mathtt{TY}_{\mathcal{I}}$	CGT Arg 135	AAT Asn	GGT Gly	TGG Trp
GCA Ala	AAG Lys	GTA Val	TTC Phe 150	ATA Ile	CGC Arg
TGT Cys	CTG Leu	TTG Leu	GTG Val	ACT Thr 165	TAT TYr
$\begin{array}{c} \mathtt{TAT} \\ \mathtt{TYY} \\ \mathtt{100} \end{array}$	AAA Lys	GGT Gly	TCT Ser	GTC Val	AGC Ser 180
GAT Asp	GAG Glu 115	ATT Ile	AAC Asn	TGT Cys	GTC Val
ATG Met	CCA	TTT Phe 130	AAC Asn	GAC Asp	GAA Glu
AGC Ser	ACT Thr	TAC TYr	ATC Ile 145	TTC Phe	TGT Cys
GAC ASD	AAC Asn	AAT Asn	TGG Trp	AAC Asn 160	TCA Ser
AAA Lys 95	GTC Val	GAG Glu	CGC Arg	CAG Gln	GCA Ala 175
TGG Trp	ATT 11e 110	ATT Ile	TGG Trp	GAC Asp	GCT Ala
CCT Pro	GCA Ala	GGT G1Y 125	AAG Lys	CAG Gln	GAT Asp
TCA Ser	CTG Leu	GCT Ala	AAA Lys 140	AAT Asn	$\mathtt{TAT}\\ \mathtt{TY} r$

Fig. 11Z-2

C	-	•	
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C	χ)	

AAAGACTGTG	TACTCCACAA	SACC ACACTTCCTG 987	GGA GATGAAATCA 1047	CAG TAGGGTTTTG 1107	GAG GAGAACTGC 1167	AATA TAAACTTGGC 1227	CGT AGAAGCAGAG 1287	AACA AATATTGAGG 1347	GAA AGAGATAGGA 1407	SAAA AAGAGACAGG 1467	PAAA ATCTATTGTG 1527	ACAA ATGGGCACCA 1587	GAA TGAGGTTGAA 1647	NTAA AGTATAGGAG 1707	AGAA GCCTATAGAA 1767	TAA TAGCAATATG 1827	AAAA AAAAAAAAG 1887	1896
	GTCAATTIGT	CCCTAAGACC	GGATTCTGGA	AACTAATCAG	CGCCACTGAG	CAGAAGAATA	ACAACATCGT	GTACTGAACA	GGAGAAGGAA	GCAGGAGAAA	TTTGGATAAA	TTGGGGACAA	AAGGCAGGAA	AGCTGCATAA	CTACAGAGAA	TTTCAACTAA	TTATAAAAAA	
CCCAGGAAAT	AATCCTCAAA	ACCAAGTATT	GACAGAGCCA	TGAGCCTTTT	AACATGCCCA	GCACTATGGG	CCATTCCCAT	GCTCGACTTG	TAAACAAGGA	GGAATGATGG	TTTTTCAGGT	AAAGGCAAAA	CAAGGAAAGA	AGAAGGTACA	AAAATTAAA	AATTCATTAT	AATTCTGTTA	
CTGAAACCAG	TTCCCTATTG	TCCCTTTCTG	GTTATCTGCA	TCTGTAGAGC	ATCCTTAGAG	CTGTTAGGAA	AGAAAGCCTC	GACCTCTACA	AGGACAGAGA	AGGGGGAAAA	AAGCTAAATT	TTAGAAGAGA	AATTTGATCA	TGTTATCTCA	TTTAAGTAGC	TCCAATAATC	ATAAATTGTG	
TTAGTTGTGA	ATAGGTGGAG	ATAGTAAAAC	CTGGATTCTA	GCAGTCTGTT	TCTGTTGTCA GAACTGTTTG	TCGTGGAACA GATATGAGAA	TTCACAACAT CCCCCATTCC	GTCCTTCTGA ATTGGGGAAG	GAATGAAGAA AGTTCTGAAT	AGAAAGGAGA AGTGGGAAGG	AGCAGCCAGG AAAAACACTC	TATCTTTTCA	AGCAGAGGTT	ATACCTTGGC	TGCTGGTTGT	ATTAAAACCA	ACTAGTCAAA	
GCAAAGGAGA TTAGT	CCCATCTTCC	ACATCTTCAC	TGAGAGGGA	ATATGGAAAT GCAGT	TCTGTTGTCA	TCGTGGAACA	TTCACAACAT	GTCCTTCTGA	GAATGAAGAA	AGAAAGGAGA	AGCAGCCAGG	ACATAAATAA	TGAGAGATGA	AACTTTTGG	AAAAGAGATG	AGCTAAAGGA	TATGTGCATT	೧೯೦೧ ೧೯೮೮ ೧೯೮೮

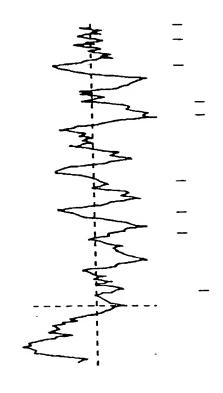
Fig. 11Z-

MI289	ATGAACTGGCACATGATCATCTCGGGGCTTATCGTAGTAGTGATCAAAGTTGTTGGAATG 60
HI289	
MI289	ACCTTTTTTCTGCTGTATTTCCCACAGGTTTTTGGCAAAAGTAATGATGGCTTCGTCCC 120
HI289	
MI289	. ACGGAGAGCTACGGAACCACTAGTGTGCAGATCTCACAGATCTTTGGGAGAAATGAC 180
HI289	
MI289	GAAAGTACCATGCCTACAAGGAGCTATGGAACAGTCTGTCCCAGAAACTGGGATTTTCAC 240
HI289	 AACGGCTTC
C	
MLZXY	
HI289	

Fig. 11Z-4

MI289	TGTGCAACACAAGGATCCACACTGGCAATTGTCAACACTCCAGAGAAACTGAAGTATCTT 360	
HI289		
MI289 HI289	. MI289 CAGGACATAGCTGTATTGAAATTACTTTATTGGTTTGGT	
MI289 HI289	MI289 AAGTGGCGCTGGATCAACACTCTGTGTTCAATGGCAATGTTACCAATCAGGACCAGAAC 480 	
MI289 HI289	MI289 TTCGACTGTCTCACTATAGGTCTGACGAAGACATATGATGCTGCATCATGTGAAGTCAGC 540 	
MI289 HI289	MI289 TATCGCTGGAAATGAATGCCAAA 570 	

Fig. 11Z-5



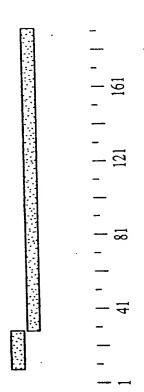


Fig. 11Z-6

19 8 8			59			238	66		119		\sim	418	159	7
ر م لا در	ڻ ا	GGA	ഗ	TCC	>	GTG	ტ	999	⊱	ACG	×	TAT	M	TGG
A E	Ш	GAA	Д	GAT	ഗ	TCC	₽	ACG	Н	ATC	ഥ	TIC	ტ	GGA
	3	TGG	×	\mathtt{TAT}	Ø	GCT	ບ	TGC	Н	ATC	Ω	GAT	П	TTA
M M	i.	TTC	Н	ATC	Ø	GCT	ĸ	AGG	ഥ	TTC	ద	AGA	≯	TAC
T V	\sim	AAC	×	AAA	ပ	TGT	E	ACC	Н	ATC	н	ATC	Ы	CIC
	11	GAA	U	TGC	Ħ	ATG	ပ	TGC	Н	ATC	Н	ATC	Ø	GCT
	ĹΤι	TLL	Ø	CAG	ы	CTG	×	AAA	ტ	GGA	Æ	900	田	GAA
4 / A	>	GTT	Ħ	ATG	ტ	GGA	Ħ	ATG	Ą	GCT	Z	AAT	ტ	GGA
٧ د. م	>	GTG	ĸ	AGG	ĸ	AGA	ტ	99C	₽	ACG	Ø	GCC	ы	CTT
E S	— ⊢	ATC	Н	ATC	Ø	GCC	Ц	CTT	ᄓ	CTG	>	GTT	臼	GAG
	Z	AAC	z	AAC	ø	GCA	Н	ATC	Ц	CTG	M	TGG	吆	CGT
√ 1		AAC	Ą	GCT	Ø	CAG	Ø	GCC	н	ATT	ഗ	AGC	×	AAA
M A	ፗ	GAA	Ø	CAG	ப்	CTA	Z	ATG	H	CAC	>	GTG	O	CAA
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V جائے ہے	T.	TTC	\triangleright	GTG	д	CCG	Ĺτή	TTC		AAG		ATC		GTT
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ال	Ω	TCG	Z	AAT	Ц	CTT	Ц	TTG	×	AAG	\triangleright	GTG	>	GTG
ייין ריי	:>	GTG	Ħ	ATG	Ø	GCT	ĹΤι	TTC	ĿĴ	GAG	>	GTG		ATA
י דירידי הידידי	22	AGA		TGG	ы	CTG		ICC		AAT	Z	ATG		TCA
J. C.	~	TGG	ᄓ	CTG	ᆸ	CTG	×	ATG	Ω	GAC	ග	299		AAC

Fig. 12A

FY	T A	A GCA	T T A L V L	V GTG	L CTG	I ATT	L I V G G A L F C C V F C C C C C C C C C C C C C C C	GGA	6 6 6	A GCT	L CTG	F TTC	C TGC	ည် ကိုလ	V GTT	F TTT	C TGT	$^{\mathrm{C}}$	N AAC	179 538
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GAA	AAG	AGC	AGT	AGC	TAC	AGA	GAA AAG AGC AGT AGC TAC AGA TAC TCG ATA CCT TCC CAT CGC ACA ACC CAA AAA AGT TAT	TCG	ATA	CCT	TCC	CAT	CGC	ACA	ACC	CAA	AAA	AGT	TAT	598
Ħ	€	ტ	X	×	ഗ	വ	H T G K K S P S V Y S R S Q Y V *	>	×	W	以	ഗ	Q	×	>	*				215
CAC	ACC	GGA	AAG	AAG	TCA	CCG	AGC	GTC	TAC	ICC	AGA	AGT	CAG	TAT	GTG	TAG				649
րդնյ	ſςΨΑΤ	Մահար	րդորդ	PAACT	PTTAC	TATA	ттқтқта тқтттттта деттта Стата да Сеса теса десел тер са де са де се де де се се де се се де се се се де се с	CATG	CAAA	TGAC	'AAAA	ATCT	ATAT	TACI	TTCI	רבאסי	ATGG	ACCC	CAA	728
AGA?	ACTI	TGAT	TTAC	TTGT	rctt2	AACTG	AGAAACTTTGATTTACTGTTCTTAACTGCCTAATCTTAATTACAGGAACTGTGCATCAGCTATTTATGATTCTATAAGC	ATCT	TAAT	'TACA	GGAA	CTGT	GCAT	כAGC	TAT	PTATG	BATTC	TAT	AGC	807
TAT	TCAG	CAGA	ATGA	AGAT?	TTTA	AACCC	TATITICAGCAGAATGAGATATITAAACCCAATGCTITIGATIGTITCTAGAAAGTATAGTAATITIGTITITITAAGGTGGTGGTTI	CTTT	GATT	GTTC	TAGA	AAGT	ATAG	STAAT	TTTGI	TTT	TAAG	GTGG	TLC	988
AAGC	ATCI	PACTC	TTTT	PTATC	TATT	PACTI	AAGCATCTACTCTTTTTATCATTTACTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCAC	ATGA	CATT	GCTA	AAGA	CTGC	ATTA	TTT	ACTA	CTGI	TAAT	TCTC	CAC	965
GACZ	TAGC	ATTA	TGTA	ACAT?	AGATC	BAGTG	GACATAGCATTATGTACATAGATGAGTGTAACATTTATATCTCCACATAGAGACATGCTTATATGGTTTTTATAAAATG	ATTT	ATAT	CTCA	CATA	GAGA	CATG	CTTZ	TATC	GTTT	TAT	TAAA	ATG	1044
AAA1	GCCA	GTCC	ATTA	ACACI	rgaa1	PAAA 1	AAATGCCAGTCCATTACACTGAATAAATAGAACTCAACTATTGCTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGT	CTCA	ACTA	TTGC	TTTT	CAGG	GAAZ	TCAI	'GGAT	PAGGG	TTGA	AGAA	GGT	1123
TACI	ATTA	ATTG	FTTA	AAAA?	ACAGO	TTAG	TACTATTAATTGTTTAAAAACAGCTTAGGGATTAATGTCCTCCATTTATAATGAAGATTAAAATGAAGCTTTAATCAG	TAAT	GTCC	TCCA	TTTA	TAAT	GAAG	ATT?	AAA1	GAAG	GCTT	TAAT	CAG	1202
CATI	GTAA	AGGA	AAATT	rgaa1	rggci	TTTCI	CATTGTAAAGGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAACTTCTTTATCCTC	TGCT	GTTT	TTT	GCCT	AGGA	GTTP	GAAA	\TCC1	PAACT	TCTI	TATC	CTC	1281
TTC1	CCCA	GAGG	CTTT	LTTTJ	PTT	TGTG	TTCTCCCAGAGGCTTTTTTTTTTTGTGTATTAAATTAACATTTTTAAAAAGCAGATATTTTGTCAAGGGGGCTTTGCAT	AAAT	TAAC	ATTT	TTAA	AAAG	CAG	TAT	TTTG	CAAG	39995	TTTC	CAT	1360
TCA?	ACTG	CTTT	TCCA	16GGC	TATE	ACTCA	TCAAACTGCTTTTCCAGGGCTATACTCAGAAGAAAAAAAA	AAAG	ATAA	AAGT	GTGA	TCTA	AGAZ	AAAAG	TGAI	rggTrI	TTAG	GAAA	GTG	1439
AAA?	TAT	TTTG	TTTT	PTGT?	TTT	BAAGA	AAAATATTTTTGTTTTTGTATTTGAAGAAGAATGATGCATTTTTGACAAGAAATCATATATGTATG	TGAT	GCAT	TTTG	ACAA	GAAA	TCAI	ראדאי	GTAT	rgga1	PATAL	TTT	ATA	1518
AGT	TTTG	AGTA	ACAGA	ACTTI	rgage	FTTTC	AGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAAAAAAA	ATAT	AAAT	AAAA	GAGC	AGAA	AAAT	PATG	CTTG	GTTT	TCAT	TTGC	TTA	1597

Fig. 12B

1676	1755	1834	1909
CCAAAAAAACAACAACAAAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCTGAGTCAAAATTGTCA	TTTTTGTTCTGTGAAAAATTTTCCTTCTTGTACCATTTCTGTTTTAGTTTTACTAAAATCTGTAAAATACTGTATTTT	TCTGTTTATTCCAAATTTGAAAACTGACAATCCAATTTGAAAGTTTGTGTCGACGTCTGTCT	GTTCTATTTGCTTTATACATTTATATTAATAATTGTACATTTTTTTT

Fig. 12C

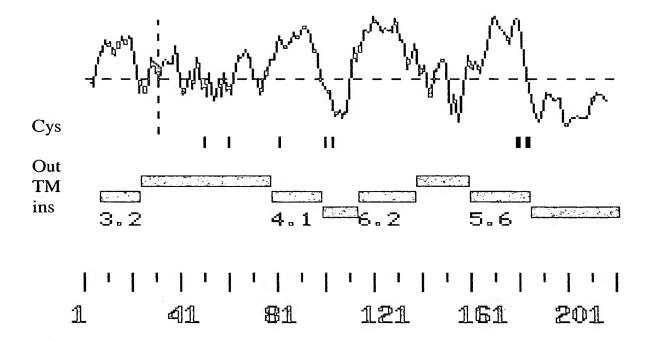


Fig. 12D

DKFZ			-GGGCA		1 1 1 1 1 1 1 1 1	
I309	: 1309 GCTGTTTCTTGGTGTTGGAATGGTGGCACAGTGGCTGTCACTGTCATGCCTCAGTGGAGAGTGTCG 10 20 30 40 50	GTTGGAATGG' 20	::::: rggcacagtg 30	GCTGTCACT(40	STCATGCCTC2 50	agtggagagtgtcg 60
DKFZ			! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	; ; ; ; ; ; ;		
1309	GCCTTCATTGAAAACAACGTGGTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGC 80 90 100 110 120 130	ACATCGTGGT. 90	rttrgaaaact 100	TCTGGGAAG(110	SACTGTGGATO 120	SAATTGCGTGAGGC 130 140
DKFZ				1 1 1 1 1 1 1 1		
I309	AGGCTAACATCAGGATGCAGAGTGCTATGATTCCCTGCTGCTCTTTCTCCGGACCTACAGGCAGC 150 150 150 210	GCAGTGCAAA 160	ATCTATGATTC 170	CCTGCTGGC: 180	PCTTTCTCGG(190	SACCTACAGGCAGC 200
DKFZ						
I309	CAGAGGACTGA 220	GCTGCTTCCG	rgargrccrrc 240	TTGGCTTTC 250	ATGATGGCCA: 260	TGTGTGCTTCCTTCCTTCTTGGCTTTCATGATGGCCATCCTTGGCATGAAA 230 240 250 260 270 280
DKFZ				; ; ; ;		
I309	I309 TGCACCAGGTGCACGGGGGCAATGAGAAGGTGAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCA 350 340 350	GGGACAATGA(300	SAAGGTGAAGG 310	CTCACATTC: 320	ngctgacggc; 330	rggaarcarcrrca 340

Fig. 12E

DKFZ					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		!
1309	TCATCACGGGCA 360	TGGTGCTCATCC 370	CTGTGAGCTG 380	GGTTGCCAA1 390	GCCATCATC 400	.TGGTGGTGCTCCTCTGTGAGCTGGGTTGCCAATGCCATCATCAGAGATTTCTATAA 370 380 390 420	TAA 420
DKFZ					{ 		!
I309	CTCAATAGTGAA 430	TGCCCAAAAACG 440	FGAGCTTGGA 450	GAAGCTCTC1 460	ACTTAGGAT	TGTTGCCCAAAAACGTGAGCTTGGAGCTCTCTACTTAGGATGGACCACGGCACTG 440 450 460 450 490	CTG 490
DKFZ							l I
I309	GTGCTGATTGTT 500	GGAGCTCTGTTC 510	TGCTGCGTTT 520	TTTGTTGCAA 530	ACGAAAAGAG 540	GGAGGAGCTCTGTTCTGCTTTTTTTGTTGCAACGAAAGAGCAGTAGCTACAGAT 510 520 530 540 550 560	GAT 560
DKFZ			 		! ! ! !		į.
I309	ACTCGATACCTT 570	ATCGCACAACCC 580	заааааастта 590	TCACACCGG2 600	AAAGAAGTCA 610	CCCATCGCACAACCTAAAAGTTATCACACCGGAAAGAAGTCACCGAGCGTCTACTC 630 590 600 610 620 630	CTC 630
DKFZ		1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
1309	CAGAAGTCAGTA 640	GTAGTTGTGTAT 650	:Стттттлад 660	CTTTACTAT <i>1</i> 670	AAAGCCATGC 680	TGTGTAGTTGTATGTTTTTTTAACTTTTACTATAAAGCCATGCAAATGACAAAAATC 650 650 670 670	ATC 700

Fig. 12F

	CTCAAAATGGACCCCAAAGAAACTTTGATTTACTGTTCTTAACTGCCTAATCTTAATTA 720 730 740 750 760	10 20	50 60 70 80 90 TAGAAAGTATAGTATTTGTTTTCTAAGGTGGTTCAAGCATCTACTCTTTTTATCATTT ::::::::::::::::::	120 130 140 150 160 ACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTTCTCCACGACATAGCATTATGT::::::::::
	ACTGCCTA/ 760	20 ;AGATATTAA :::::::::	90 CTACTCTTT ::::::::: CTACTCTTT	160 CACGACATA(::::::::: CACGACATA(
	CTGTTCTTA 750	10 GAATG ::::: AGCAGAATG	80 ;TTCAAGCAT ::::::::::: ;TTCAAGCAT	150 TAATTTCTC :::::::::::::;TAATTTCTC
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TTTGATTTP 740	 AGCTATTTC 810	70 ::::::::::::::::::::::::::::::::::::	140 TTACTACTG:::::::::::::::::::::::::::::::
; ; ; ; ;	CCAAAGAAAC 730	 IGATTCTAT? 800	60 AATTTGTTTT ::::::::::	130 CTGCATTATT :::::::::: CTGCATTATT 940
 	AAATGGACC 720	AGCTATTTA	50 60 70 80 90 TAGAAAGTATAGTAATTTGTTTTCTAAGGTGGTTCAAGCATCTACTCTTTTTATCAT' ::::::::::::::::::::::::::::::::::::	120 140 150 160 ACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTAT(:::::::::::::::::::::::::::::::::
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TATATTACTTTCTCA 710		30 40 50 60 70 80 90 DKFZ TTTGATTGTATAGTAATTTGTTTTTCTAAGGTGGTTCAAGCATCTACTCTTTTTATCATTT ::::::::::::::::::	100 150 150 130 140 150 160 DKFZ ACTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGT ::::::::::::::::::::::::::::::::
DKFZ	I309 TATA1	DKFZ I309 CAGG	30 DKFZ TTTG? ::::: I309 TTTG?	100 DKFZ ACTTC ::::: I309 ACTTC

Fig. 12G

TGAAATGC ::::::: TGAAATGC 1050	TTGAAGAA :::::::: TTGAAGAA 1120	TAAAATGA ::::::: TAAAATGA	GGAGTTAG ::::::: GGAGTTAG
230 TATTTAAAA :::::::::: TATTTAAAA	300 ATGGATAGGG ::::::::: ATGGATAGGG	370 ::::::::::::::::::::::::::::::::::::	440 TTTAGCCTA :::::::::: TTTAGCCTA 1250
220 TATATGGTT1 :::::::::: TATATGGTT7 1030	290 AGGGAAATC? :::::::::	360 CTCCATTTA1 ::::::::: CTCCATTTA1	430 TATGCTGTT1 :::::::::: TATGCTGTT7
210 SAGACATGCT :::::::::: SAGACATGCT 1020	280 ATTGCTTTTC ::::::::	350 3ATTAATGTC ::::::::: 3ATTAATGTC 1160	420 sgctttctga :::::::::
200 NTCTCACATA(::::::::::::::::::::::::::::::	270 3AACTCAACT :::::::: 3AACTCAACT 1080	30 340 350 360 370 AAAAACAGCTTAGGGATTAATGTCCTCCATTTATAATGAAGATTAAAATGA ::::::::::::::::	410 saaattgaat ::::::::: saaattgaat
190 220 230 ;TGTAACATTTATATCTCACATAGAGACATGCTTATATGGTTTTATATAAAATGAAATGC ::::::::::::::::::::::::::::::::::::	260 270 280 290 300 ACTGAATAAATAGAACTCAACTATTGCTTTTCAGGGAAATCATGGATAGGGTTGAAGAA :::::::::::::::::::::	330 340 350 360 370 ATTGTTTTAAAAACAGCTTAGGGATTAATGTCCTCCATTTATAATGAAGATTAAAATGA ::::::::::::::::	400 410 420 430 440 AGCATTGTAAAGGAAATTGAATGCCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAG :::::::::::::::::::::::::::::
180 ACATAGATGAGTGT :::::::::::: ACATAGATGAGTGT		320 GGTTACTATTAATT ::::::::::: GGTTACTATTAATT 1130	0 390 AGGCTTTAATCAGC ::::::::::: AGGCTTTAATCAGC 0 1200
170 DKFZ ACATAGATGAG :::::::::::::::::::::::::::::::::::	240 250 DKFZ CAGTCCATTAC :::::::::::::::::::::::::::::::	310 DKFZ GGTTACTATTA :::::::::: I309 GGTTACTATTA	380 DKFZ AGGCTTTAATC ::::::::::::::::::::::::::::::::::::

Fig. 12H

470 480 490 510 CTTTATCCTCTCCCAGAGGCTTTTTTTTTTTTGTGTATTAAATTAACATTTTAA ::::::::::::::::::::	540 550 560 570 580 "TTGTCAAGGGCTTTGCAAACTGCTTTTCCAGGGCTATACTCAGAAGAAAGA	610 620 630 640 650 AAGAAAAAGTGATTTTAGGAAAGTGAAAATATTTTTGTTTTTGAATAAGAAG	680 690 700 710 720 TGACAAGAAATCATATGTATGGATATATTTTAATAAGTATTTGAGTACAGACTTTG ::::::::::::::::::::::::::::::::::
500 TCTTGTGTATTA ::::::::::: TCTTGTGTATTA 1310	570 TCCAGGGCTATA :::::::::: TCCAGGGCTATA	640 ATATTTTTGTTT ::::::::: ATATTTTTGTTT 1450	710 TTAATAAGTATT :::::::::: TTAATAAGTATT
490 3CTTTTTTT :::::::::: 3CTTTTTTTT 1300	560 AAACTGCTTT :::::::: AAACTGCTTT 1370	630 SAAAGTGAAA ::::::::: SAAAGTGAAA 1440	700 rggararatr ::::::::: rggararatr 1510
480 FCTCCCAGAG :::::::::: FCTCCCAGAG	550 CTTTGCATTC ::::::::: CTTTGCATTC 1360	620 ATGGTTTTAG ::::::::: ATGGTTTTAG	690 CATATATGTA' :::::::::: CATATATGTA' 1500
470 TTATCCTCT::::::::::::::::::::::::::::::	540 GTCAAGGGGG :::::::::::::::::::::::::::::::	610 GAAAAAGTG? ::::::::: GAAAAAGTG? 1420	680 :ACAAGAAATC ::::::::::::::::::::::::::::::::::
0 AAATCCTAACTTCT :::::::::::: AAATCCTAACTTCT 0	0 AAAGCAGATATTT ::::::::::: AAAGCAGATATTTT 0		0 670 AATGATGCATTTTG ::::::::::: AATGATGCATTTTG 0 1480
450 460 DKFZ AAATCCTAACTT :::::::::: I309 AAATCCTAACTT 1260 1270	520 530 DKFZ AAAGCAGATATT ::::::::::::::::::::::::::::::::	590 600 DKFZ AAAGTGTGATCT :::::::::: I309 AAAGTGTGATCT 1400 1410	660 670 DKFZ AATGATGCATTT ::::::::::::::::::::::::::::::::::

Fig. 12I

AAAAAACAA ::::::::	TTGTCATTT :::::::: TTGTCATTT	TAAATACTG ::::::: TAAATACTG	CGTCTGTCT ::::::: CGTCTGTCT
790 rgcttacca :::::::: rgcttacca 1600	860 SAGTCAAAA' ::::::::: SAGTCAAAA'	930 FAAATCTG' :::::::: FAAATCTG' 1740	1000 FTGTGTCGA(:::::::: FTGTGTCGA(
780 ::::::::::::::::::::::::::::::::::::	850 FIGGGTACCTC :::::::::::::::::::::::::::::::::	920 TAGTTTTAC1:::::::::::::::::::::::::::::::::	990 ATTTGAAAGT7 ::::::::::: ATTTGAAAGT7
770 ATATGTCTTG ::::::::: ATATGTCTTG	840 :rGCTCCTATG ::::::::: TGCTCCTATG	910 CATTTCTGTT :::::::::: CATTTCTGTT	980 GACAATCCA? :::::::::: GACAATCCA? 1790
760 GAGCAGAAAA ::::::::: GAGCAGAAAA	830 GAACTTCACC :::::::: GAACTTCACC	900 CTTCTTGTAC ::::::::: CTTCTTGTAC	970 TGATGAAACT ::::::::: TGATGAAACT 1780
750 760 770 780 790 ATATAAATAAAAAAAAATATGTCTTGGTTTTTCATTTGCTTACCAAAAAACAA ::::::::::::::::::::::::	820 840 850 860 STTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCTGAGTCAAATTGTCATTT :::::::::::::::::::::::::::::::::	890 910 910 920 930 AAAATAAATTTCCTTCTTGTACCATTTCTGTTTAGTTTTACTAAATCTGTAAATACTG :::::::::::::::::::::::::::::::::::	960 970 980 990 1000 TATTCCAAATTTGAAACTGACAATCCAATTTGAAAGTTTGTGTCGACGTCTGT ::::::::::::::::::::::::::::::::
730 740 750 760 770 780 790 DKFZ AGGTTTCATCATATAAATAAGAGCAGAAAAATATGTCTTGGTTTTTCATTTGCTTACCAAAAAACAA ::::::::::::::::::::::::	800 810 820 830 840 850 860 DKFZ CAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCTGAGTCAAAATTGTCATTT :::::::::::::::::::::::::::::::::	870 880 900 900 910 920 930 DKFZ TTGTTCTGTGAAAATAAATTTCCTTCTTGTACCATTTCTGTTTTACTAAAATCTGTAAATACTG ::::::::::::::::::::::::::::::::::::	940 950 1000 DKFZ TATTTTCTGTTTATTCCAAATTTGATGAAACTGACAATTTGAAAGTTTGTGTCGACGTCTGTCT
730 DKFZ AGG ::: I309 AGG 1540	800 DKFZ CAA ::: I309 CAA	870 DKFZ TTG ::: 1309 TTG	940 DKFZ TAT ::: I309 TAT 1750

Fig. 12J

1010 1020 DKFZ AGCTTAAATG	1020 FAATGAATGTG	1030 FTTCTATTTGC	1040 TTTATACATT	1050 PATATTAATA	1060 AATTGTACAT	0 1030 1040 1050 1060 1070 aatigeteereesaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
:::: I309 AGCT	::::::::::::::::::::::::::::::::::::::	STTCTATTTGC	::::::: TTTATACATT	::::::: PATATTAATA	AATTGTACAT	1309 AGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTCTAAAAAA
1820	1830	1840	1850	1860	1870	1880
1080	1090					
DKFZ AAAAAAAAAA	1AAAAAA	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!				
••	••••••					
1309 AAAAA	1309 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAA				
1890	1900					

Fig. 12K

	50 60 70 80 90 100 110 TCACTGTCATGCCTCAGGGCCTTCATTGAAACAACATCGTGGTTTTTGAAACTTCTG : :::::::::::::::::::::::::::::::::::	120 130 140 150 160 170 180 I309 GGAAGGACTGTGATTGCGTGAGGCAGGCTAACATCAGGATGCAGTGCAAAATCTATGATTCCCTG ::::::::::::::::::::::::::::::::	0 200 210 220 230 240 250 250
 GCAACCTA 10		120 GGAAGGACTGTGGAT:::::::::::::::::::::::::	190 CTGGCTCTTTC :::::::: CTGGCTCTTAG
I309 G CLAUD8 ATG	I309 CLAUD8	I309 CLAUD8	I309 CLAUD8

Fig. 12L

320 .aggctca .agagccg 350	390 CTGGGTT :::::: CTGGGTT	460 :GGAGAAG ::::::: :GGAGAAG	530 FTTTTTG::::::::::::::::::::::::::::::::
310 SAGAAGGTG? :::::::::: SAGAACGTG? 340	380 rcccrgrgag :::::::::	450 ACGTGAGCTT :::::: GCGGAGCTC	520 TTCTGCTGCC ::::::::::: TTCTGTTGTC
300 330 330	370 FIGGTGCTCA : :::::: FITGTGCTCA 400	440 TGCCCAAAA:::::::::::::::::::::::::::::::	510 \GGAGCTCTG' ::::::: \GGAGCACTG' 540
290 CAGGTGCACG ::::::::: CAGATGCACG 320	360 ACGGGCATGC ::::::: ACCGGCTTGC 390	430 TAGTGAATGT :.:::::: TGGTGGATGT 460	500 GATTGTTGGA :::::::: GATCGCTGGA
270 310 320 GCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGTGAAGGCTCA :::::::::::::::::::::::::::::::::::	340 380 390 390 390 390 380 390 390 390 390 CGGCTGGAATCATCATCATCATGGTGGTGGTGCTCATCCCTGTGAGCTGGGT'::::::::::::::::::::::::::::::::	410 420 430 440 450 460 CATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAAACGTGAGCTTGGAGAAG ::::::::::::::::::::::::::::::	480 490 500 510 520 GGATGGACCACGGCACTGGTGCTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTT :::::::::::::::::::::
270 ATCCTTGGCA:::::::::::ATCCTCGGAA!	340 TGGAATCAT ::::::: CGGAATCAT	410 AGAGATTTC: :::::::: AGAGACTTC: 440	480 GGACCACGG(::::::::: GGACCACAG(510
260 I309 CTTTCATGATGGCCA ::::::::::::::::::::::::::::::::::	330 340 360 370 380 390 I309 CATTCTGCTGACGCTTCATCATCATCATCACGGCATGGTGCTCATCCCTGTGAGCTGGGTT :::::::::::::::::::::::::::::::	400 420 430 440 450 460 I309 GCCAATGCCATCAGAGATTTCTATAACTCAATAGTGATGCCCAAAAACGTGAGCTTGGAGAAG ::::::::::::::::::::::::::::::	470 480 510 510 530 I309 CTCTCTACTTAGGATGGACCACGGCACTGGTGCTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTG ::::::::::::::::
1309 C : CLAUD8 C	1309 C : CLAUD8 C	1309 G : CLAUD8 G	1309 C : CLAUD8 C

Fig. 12M

540 550 600 I309 TTGCAACGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAAAAAGTTATCAC ::::::::::::::::::::::::::::::::	610 620 640 650 670 I309 ACCGGAAAGAAGTCACCGAGCGTCTACTCCAGAAGTCAGTAGTTGTGTATGTTTTTTTT	690 700 710 720 730 740 TGCAAATGACAAAAATCTTTTTTTTTTTTTTTTTTTTTT		
550 560 GCAGTAGCTACAGATAC :::.::::::: GCAACAGTTACAGGTAC 580 590	620 630 640 6 TCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTA ::.::::::::::::::::::::::::::::::::::	690 CAAATGACAAAAATCTA		
540 TTGCAACGAAAAGAC :::::::::::: TTGTACTGAAAGGAC 570	610 ACCGGAAAGAAGTCA .::.::::: GCCGAAAAGAGATCT	680 ACTATAAAGCCA	750 TACTGTTCTTAA	
I309 CLAUD8	1309 .CLAUD8	I309	CLAUD8 I309	6

Fig. 12N

880 TTCTAAGGT	 	950 ITTTACTAC	 	1020 agagacatg	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1090 rattgcttt		1160 3ATTAATGT	
870 TAATTTGTT		940 ACTGCATTA	 	1010 ATCTCACAT		1080 SAACTCAAC		1150 CAGCTTAGG	
860 Saaagtatag		930 ATTGCTAAAG		1000 PAACATTTAT.		1070 rgaataaata		1140 IGTTTAAAAA	
830 840 850 860 870 880 GATATTAAACCCAATGCTTTGATTGTTCTAGAAAGTATAGTAATTTGTTTTCTAAGGT		900 910 920 930 940 950 TACTCTTTTTATCATTCAAAATGACATTGCTAAAGACTGCATTATTTTACTAC		970 980 990 1000 1010 1020 ACGACATAGCATTAGATGAGTGTAACATTTATATCTCACATAGAGACATG		1040 1050 1060 1070 1080 1090 TATTTAAAATGAAATGCCAGTCCATTACACTGAATAAATA		1110 1120 1130 1140 1150 1160 TGGATAGGGTTGAAGGTTACTATTAATTGTTTAAAAAAAGGCTTAGGGATTAATGT	
840 CCAATGCTTT	 	910 ATCATTTACT		980 ATTATGTACA		1050 BAAATGCCAG		1120 FGAAGAAGGT	
830 SATATTAAACO	1	900 PACTCTTTT?		970 \CGACATAGC?		1040 ATTTAAAATC		1110 GGATAGGGT	
820 TCAGCAGAATGAG	 	890 GGTTCAAGCATCI	 	960 I309 TGTAATTTCTCCA	1 1 1 1 1 1 1	1030 CTTATATGGTTTT		1100 I309 TCAGGGAAATCAI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
I309	CLAUD8	1309	CLAUD8	1309	CLAUD8	1309	CLAUD8	1309	CLAUD8

Fig. 120

1309	1170 1180 1190 1200 1210 1210 1230 1230 1230 1230 1309 CCTCCATTTAATGAAGATTAAATGAAGGCTTTTAATCAGCATTGTAAAGGAAATTGAATGGCTTTTCTG	1180 TGAAGATTAAA	1190 ATGAAGGCTT	1200 TAATCAGCAT	1210 TGTAAAGGA <i>A1</i>	1220 ATTGAATGGCT	1230 TTCTG
CLAUD8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 	 	 			
I309	1240 1250 1260 1270 1280 1290 1300 I309 ATATGCTGTTTTAGCGAGTTAGAAATCCTAACTTCTTTTTTTT	1250 TAGCCTAGGAG	1260 TTAGAAATCC	1270 raacttctt	1280 ATCCTCTTCT	1290 SCCAGAGGCTI	1300 TTTTT
CLAUD8					; ; ; ;	! ! ! ! ! !	
1309	1310 1320 1370 1340 1350 1360 1370 I309 TTCTTGTGTATTAAATTTAAAAAGCAGATATTTTGTCAAGGGGCTTTGCATTCAAACTGCTT	1320 AATTAACATTT	1330 TTAAAAAGCA(1340 3ATATTTTGT	1350 CAAGGGGCTTT	1360 rgcattcaaac	1370 TGCTT
CLAUD8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 				! ! !
1309	1380 1390 1400 1410 1420 1430 1440 I309 TTCCAGGGCTATACTCAGAAAAAAAAAAAAAAAAAAAAA	1390 CTCAGAAGAAA	1400 GATAAAAGTG	1410 rgatctaaga	1420 AAAAGTGATGO	1430 STTTTAGGAAA	1440 GTGAA
CLAUD8		i 1 1 1 1 1 1	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 		

Fig. 12P

1450	1460 1470 1480 1490 1500 1510	1470	1480	1490	1500	1510
I309 AATATTTTGTT	FTTTGTATTTGAAGAATGATGCATTTTGACAAGAAATCATATATGTATG	Gaagaatgat	GCATTTTGAC	AAGAAATCAT	ATATGTATGGA	TATAT
CLAUD8			! ! ! ! !	i 1 1 1 1 1 1		
1520	1530 1540 1550 1560 1570 1580	1540	1550	1560	1570	1580
I309 TTTAATAAGTAI	FTTGAGTACAGACTTTGAGGTTTCATCAATAAAAAAAAAA	TTTGAGGTTT	CATCAATATA	AATAAAAGAG	CAGAAAAATAT	GTCTT
CLAUD8						; ! !
1590	1600 1610 1620 1630 1640 1650	1610	1620	1630	1640	1650
I309 GGTTTTCATTTGC	CTTACCAAAAAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTAT	CAACAACAAA	AAAAGTTGTC	CTTTGAGAAC	TTCACCTGCTC	CTAT
CLAUD8					 	
1660	1670 1680 1690 1700 1710 1720	1680	1690	1700	1710	1720
I309 GTGGGTACCTGAG	STCAAAATTGTCATTTTGTTCTGTGAAAAAAATAAATTTCCTTCTTGTACCATTTCTGT	TTTTTGTTCT	GTGAAAAATA	AATTTCCTTC'	TTGTACCATTT	CTGT
CLAUD8		1 1 1 1 1 1				
1730 1740 1750 1760 1770 1780 1790	1740	1750	1760	1770	1780	1790
I309 TTAGTTTTAAAATCTGTAATACTGTATTTTTTTTTTTTT	AAATCTGTAAATA	.crgrarrrr	CTGTTTATTC	CAAATTTGAT	Gaaactgacaa	TCCA
CLAUD8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	{	 			

Fig. 12Q

1850 1860	I309 ATTTGAAAGTTTGTGTCGACGTCTGTCTAGCTTAAATGAATG				
1840	ATGTGTTCT	! ! !	aaaaaaa	! ! !	
1830	TTAAATGA	! ! ! !	AAAAAAA	; ! ! !	j
1820	CTGTCTAGO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AAAAAAAA		
1810	GTGTCGACG1		ATTTTTCTA?		
1800	ATTTGAAAGTTT		I309 AATAAATTGTACATTTTTCTAAAAAAAAAAAAAAAAAAA		
	I309	CLAUD8	1309	CLAUD8	

70 70 70 70 70 70 60	140 /SWV :::: /SWV 130	210 3SFH :::: \$SYH 200	
10CKV;	VLIPY :::::: VLIPY	IRTTQI ::::: IRTTQI	
0	90 110 120 120 140 GLMCAASVLAFLAFMTAILGMKCTRCTGDDENVKSRILLTAGIIFFITGLVVLIPVSWV ::::::::::::::::::::::::::::::::::::	160 170 180 190 200 210 LVDVALKRELGEALYIGWTTALVLIAGGALFCCVFCCTERSNSYRYSVPSHRTTQRSFH .:.::::::::::::::::::::::::::::::::::	
MCMR:::::	AGIIF	SNSYR	
50 WEGLWI ::::: WEGLWI	120 RILLTY ::::: HILLTY	190 CCTER:::::	
VFENRI :::: VFENFI	ENVKSI : . : : . EKVKAI	FCCVF(:::::	
40 ESNIV :.::: ENNIV	110 CTGDD: ::::. CTGDN:	180 AGGAL:::: VGGAL:	
VSAFI ::::: VSAFI	MKCTR ::::: MKCTR	ALVLI ::::: ALVLI	
30 MPQWR ::::: MPQWR 20	100 TAILG :::: MAILG	170 IGWTT :::: LGWTT	
VAVTI :::: VAVTV	FLAFM ::::: FLAFW	GEALY ::::: GEALY	
20 7GMVGT ::::: 7GMVGT	90 ASVLA ::: ASVMS	160 LLKREI :::: QKREI 150	
VLGGV :::: FLGGV	GLMCA :::::	LVDVA	AXÕS; :::: AXÕS;
10 QMAAI :	80)LQASR :::::)LQAAR 70	150 IDFYNE ::::: IDFYNS	220 KRSPSIYSK :.::::: KKSPSVYSR 210
MATYAI	80 100 140 120 130 140 LALSPDLQASRGLMCAASVLAFLAFMTAILGMKCTRCTGDDENVKSRILLTAGIIFFITGLVVLIPVSWV :::::::::::::::::::::::::::::::::::	150 ANSIIRDFYNF :::::::::	220 AEKRSPSIYSKSQYV . :.::::::::: TGKKSPSVYSRSQYV 210
10 CLAUD8 MATYALQMAAL : I309L	80 100 110 120 130 140 CLAUD8 LALSPDLQASRGLMCAASVLAFLAFMTAILGMKCTRCTGDDENVKSRILLTAGIIFFITGLVVLIPVSWV :::::::::::::::::::::::::::::::::::	150 CLAUD8 ANSIIRDFYNP ::.:::::: I309 ANAIIRDFYNS 140	220 CLAUD8 AEKRSPSIYSK . :.::::: I309 TGKKSPSVYSR 210
CF	CL	CL	CI

Fig. 12S

I309	LFLGGVGMVGTVAVTVMPQWRVSAFIENNIVVFENFWEGL	40
hCPE		20
MCPE	MASMGLQVLGISLAVLGWLGIILSCALPMWRVTAFIGSNIVTAQTSWEGL	20
rRPV	. MSMSLEITGTSLAVLGWLCTIVCCALPMWRVSAFIGSSIITAQITWEGL	49
I309	WMNCVRQANIRMQCKIYDSLLALSPDLQAARGLMCAASVMSFLAFMMAIL	90
hCPE	WMNCVVQSTGQMQCKVYDSLLALPQDLQAARALVIISIIVAALGVLLSVV	100
mCPE	WMNCVVQSTGQMQCKMYDSMLALPQDLQAARALMVISIIVGALGMLLSVV	100
rRPV	WMNCV. QSTGQMQCKMYDSLLALPQDLQAARALIVVSILLAAFGLLVALV	ω ω
I309	GMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN	140
hCPE	GGKCTNCLED. ESAKAKTMIVAGVVFLLAGLMVIVPVSWTAHNIIQDFYN	149
MCPE	GGKCTNCMED. ETVKAKIMITAGAVFIVASMLIMVPVSWTAHNVIRDFYN	149
rRPV	GAQCTNCVQD.ETAKAKITIVAGVLFLLAAVLTLVPVSWSANTIIRDFYN	147
1309	SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIP	190
hCPE	PLVASGOKREMGASLYVGWAASGLLLLGGGLLCC.NCPPRTDKPYSAKYS 1	198
mCPE	PMVASGOKREMGASLYVGWAASGLLLLGGGLLCCSCPPRSNDKPYSAKYS	199
rRPV	PLVPEAQKREMGTGLYVGWAAAALQLLGGALLCCSCPPREKYAPTKILYS	197
I309	SHRTTQKSYHTGKKSPSVYSRSQYV 215	
hCPE	AARSAAASNYV209	
MCPE		
rRPV	APRSTGPGTGTGTAYDRKTTSERPGARTPHHHHYQPSMYPTRPACSLASET 248	248

Fig. 12T

38 S TCC A GCC V GTG S TCT E GAA G GGA F TTT TACC TACT E GAG E GAG TACA P V GTC G GGG F TTT V GTG CTT P CCT L 58 257 D GAT D GAT S TCT S TCC M ATG L CTG D GAC E GAG CCC D GAC $^{\circ}$ ာ TgC R CGA R CGA $^{\circ}$ 9 99 9 K AAA CCC CIC H CAT

78 R CGC 9 96 0 L Y TAC P R AGG V GTC E GAA PCCT L V GTC Y TAT PCCT s Tcc V GTT CCT A GCC Q CAG V GTC TACG

80

H CAC GAC

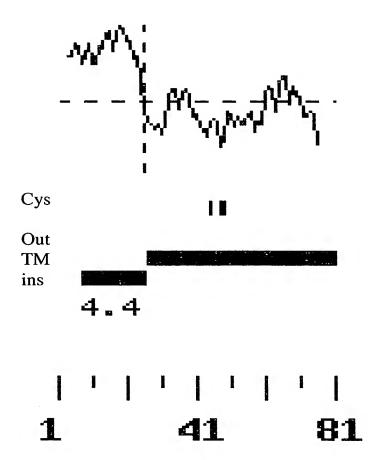


Fig. 13B

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TGT;	4CTT(TGTACTTGTATAAGT ATG	AAGT		GAA	TIC	TTA	TAT	AGG	ATT	GTT	GTT	GGA	TTC	ATT	CTT	ATC	TTT	ACA	142
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GTA	CTG	CGC	ACT	TTG	999	ATA	TTG	ACT	GTA	TTC	TGG	GTT	TGC	CCC	CTC	ACT	ATT	$ ext{TT}$	AAT	262
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CCA	GAC	TAT	TTT	ATA	CCT	ATC	AGT	ATA	ACT	ATA	GTT	CTT	ACT	CTT	CTT	CTT	GGA	ATT	CTT	322
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TTT	CTT 7	ATT	GTT	TAT	TAT	999	AGT	TTT	CAC	CCA	AAC	AGA	AGT	GCA	GAA	ACA	AAA	TGT	GAT	
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GAA	ATT	GAT		GGA AAA	CCA	GTT	CTA	AGA	GAA	TGT	AGA	ATG	AGA	TAT	TTC	CTA	ATG	GAA	TAA	442
GCT? AAA?	ATTC? \AAAA	ላፒፒፒ <i>ያ</i> ኒልልልያ	ATGAT VAAAA	ratai Saaa	GCTATTCATTTATGATATATATTTT AAAAAAAAAAAAAA	GCTATTCATTTATGATATATATTTTTCTTATATTTTTGTTTG	ATAT	TTTC	TTTC	ATTG	GTTP	GTAA	AGAA	AATG	TGTG	TTA	AAAA	AAAA	AAA	521 546

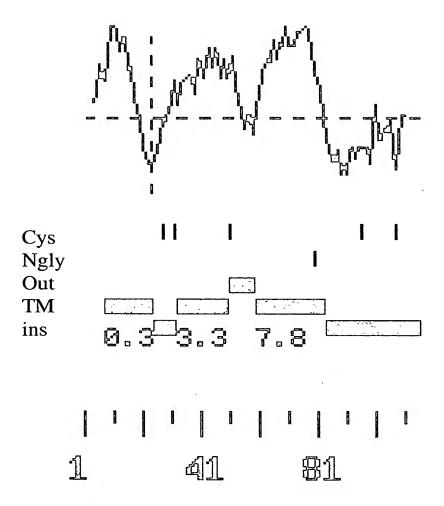


Fig. 14B

8 8	28 128	48 188	68 248	308	108 368	128 428	148 488
r.	E GAA	N AAT	A GCA	T ACA	K AAA	D GAT	K AAG
F	E GAA	ტ ტტტ	Q CAA	K AAG	R AGA	V GTG	T ACC
L CTG	N AAT	E GAA	M ATG	M ATG	T T G	GCT GCT	F
L G CTT	E GAA	I ATA	E GAA	I ATC	ი იი	A GCT	K AAA
r CTG	T ACG	E GAA	R CGG	E GAG	PCCT	R CGA	L CTA
CTT	M ATG	L	I ATT	L	CIC	A GCA	P CCA
R GGC	R CGG	S TCT	K AAA	T ACC	ACC	M ATG	T ACT
K 3 AAG	V GTC	$^{ m Y}_{ m TAC}$	D GAC	N AAC	Y TAC	D GAT	V GTC
M A ATG	L TTA	${ m F}$	D GAT	S TCA	ი ი	P CCG	K AAA
BAGGZ	CCC	Q CAG	I ATA	D GAC	Y TAT	T ACT	S AGC
AAGAG	F TTT	N AAC	CTC	CTG	Q CAG	$^{ m Y}_{ m TAT}$	\mathbb{W}
CTGAAGAAGAGAGGA	A GCA	CTC	S AGT	K AAA	ტ ტ	N AAC	V GTG
3CTG	S TCT	$^{ m Y}$	R AGG	G GGA	V GTG	I ATA	E GAA
3GCA(S TCT	A GCA	N AAT	TACT	D GAT	I ATA	L TTA
CGTG	F TTT	Q CAG	K AAG	V GTG	P CCT	R AGA	G GGT
BACGC	TACA	A GCT	S AGC	T ACA	V GTG	$^{ m Y}$	E GAA
38086	I ATA	CTG	CAA	Γ	ი ი ი	T ACC	CAA
3GTG(F TTT	CAA	V GTT	G GGA	$_{\rm TGT}^{\rm C}$	CTC	I ATC
CGGACGCGGTGGGCGCAG	F TTC	M ATG	$_{ m CTT}$	${ m F}$	R AGG	N AAC	A GCT
7992	Γ	N AAT	H CAT	F	P CCC	Y TAC	E GAG

Fig. 15A

168 548 188 608 208 668 248 788 268 848 288 908 228 728 308 ng. F N AAT I ATC GGT LCTT A GCT Y TAT R CGG G GGA S TCC P A GCT Y TAT PCCA PCCT a GGT A GCA H IATC Y TAC D GAC G GGT V GTA H CAT CCT G GGA S TCT K AAA K AAG R AGG F TTT V GTC PCCT D GAT CFC R AGA CCT TACT ¥ TGG K AAG G GGG CCC R CGA F TTT L L TTG L CTA T ACC L CTG T ACT D GAT D GAC HCAC A GCC G GGT R AGG H CAT $\overline{\mathbf{W}}$ A GCA L GGA R AGG PCCT FTTTN AAC H CAT ი ემ S Y TAT D GAC 9 9 9 A GCC E GAA C TGT L G GGT I ATC K AAA V GTC I ATT D GAT F TTT V GTG Y TAT S ICC A GCC F TTT MATG GGA E GAG N AAT Q CAG H CAT E GAA F TTC I ATC D GAT H IATC L PCCA CCC M ATG D GAC CCC CCC F TTT A GCT F GGA I ATA V GTA A GCA H G GGT A GCT M ATG N AAT TACT E GAA I ATT D GAT TACT V GTG L TTG I ATC PCCC R AGA G GG GG F TTT D GAC CTT A GCC D GAT EAA R 50 K AAG GGT D GAT Y TAT K AAG F TTT T ACA F TCA RCGC G GGT L ITG Q CAA Q CAG PCCA T ACT I ATT CTG ACA PCCT N AAC D GAT S TCT K AAG

 $\infty \infty$

15B

 $\infty \infty$

408 1268 448 1388 328 388 1208 368 1148 468 448 348 $\infty \infty$ 428 1328 TACC A GCT P CCA D GAT G GGT K AAA I ATT F TTC L TTA K AAA D GAC N AAC E GAA A GCT N AAC A GCT R AGA M ATG $^{
m Y}$ D GAT K AAA P CCA E GAA T ACA L CTG D GAT H CAT ACA T ACC V GTT E GAA ၁ ည် ACC. S TCT I ATC CAA F TTT Q CAA K AAA R CGT K AAG PCCA S T ACC I ATC CAA F TTT F TTT W TGG K AAA D GAT M ATG K AAG W S AGT V GTT CCC $\Gamma_{\rm IGT}^{\rm C}$ E GAA I ATC S TCA TACT F TTC CIG S Y TAT V GTC D GAT G GGA G GGA N AAT I ATT D GAT A GCC T ACT A GCT K AAG F PCCT R CGT R AGA I ATT P CCA A GCA R AGG SAGC D GAT F TTT F L TTA R AGA r Tr G D GAT W TGG H MATG E GAA V GTC I ATA FTTT IATC PCCC ာ ဦင် K AAA R CGA N AAC A GCT K AAA TGG F TTC FTTT V GTA E GAG E GAG Y TAT K AAG F I ATT V GTG T ACC Y TAC GGA I ATT V GTT V GTG а 960 R AGA GGA D GAT A GCA R AGA R CGT Q CAG K AAA N AAT V GTG T ACG I ATC ССG K AAG A GCT GGA F TTT Y TAC I ATC Q CAA M ATG PCCA F $_{\mathrm{TTC}}$ Q CAG ACA K AAG D GAT W TGG Y TAC L CTG F TTT GGA F TTC

Fig. 15C

σ σ	ω ω	4 9	Ŋ	4
488 1508	508 1568	51 158	166	168
K AAG	N AAC		PAAC	
I K ATA AAG	K AAA		PCTT	
9 9	L CTG		CCAT	
G GGA	L TTG		AAAA(
STCA	H CAT		GAAT	
H CAT	V GTT		AATA(
A GCA	I ATT		TCAA	
K AAA	G GGT		rgct'	
GAA	F TTT		ATTC	
K AAG	I ATT		ATAAİ	
N AAC	F TTT		raat?	
I ATC	Γ		CTTT	
D GAT	S AGC		\GGT(
G F GGT TTT	S L AGT TTA		CAAC	
G GGT	S AGT	* TAA	ACCT(
F TTT	H K CAT AAG A	Q CAA	TAA	AAAA
S CA	H CAT	$_{\mathtt{TAT}}^{\mathtt{Y}}$	raaa?	aaaa
S TCC T	Y TAT	T S I Y Q CT TCT ATT TAT CAA	TTCATAGACCTAAAATAAACCTCAACAGGTCTTTTAATATATAATTCTGCTTCAAAATAGAATAAAACCATTCTTTAAC	ACAAAAAAAAAAAAA
K N AG AAC	Γ	S TCT	SATAC	aaaa.
X AG	H TA	T CT	TT	AC?

Fig. 15D

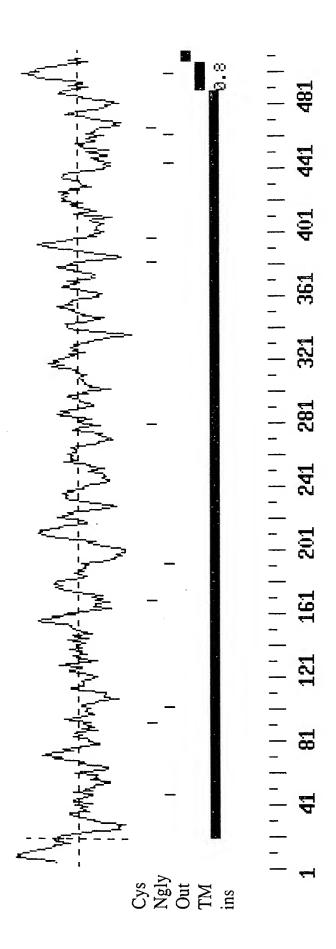


Fig. 15E

9					73	240	93	300	\vdash	9	r	2	1	153	∞
ACA	Ø	205	W	AGC	H	ACA	Λ	GTA	×	TAC	4	4 4 4		Λ	$_{ m GTT}$
ATA	Ы	CTG	Ø	CAA	Ы	TTG	ტ	GGG	H	ACA	C	ה א ה	;	ტ	GGG
$ ext{TL}$	Q	CAA	\triangleright	GTC	ტ	GGA	Ö	\mathtt{TGT}	口	CTT	۲	+ F F F	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	×	AAG
AAT	Z	AAC	红	TTT	<u>រ</u> ែ	TTC	民	AGG	ഗ	AGC	۴	ų ك ئ))	ഗ	ICC
GTT	Z	AAC	出	CAT	ഥ	$\mathrm{T}\mathrm{T}\mathrm{T}$	Д	CCC	×	TAC	Ę:	ני ק ט	3	Н	ATA
ATG	ы	GAG	ഗ	AGT	Ø	GCA	>	GTG	×	AAA	¢	ה ק ד		œ	AGG
CTG	臼	GAG	ტ	GGG	0	\widetilde{CAG}	×	AAA	ထ	AGA	44	ייז ייל א ייל	5	H	ACC
TCT	Z	AAT	臼	GAA	Z	ATG	Z	ATG	Z	TGG	¢	ה ל ע ד	Į.	Ŀı	TTT
CTG	×	AAA	Н	ATA	臼	GAA	Н	ATC	ტ	GGG	۴	4 کی	5	₽	ACG
CTT	Д	GAC	闰	GAA	ĸ	CGG	Ø	GCG	Д	CCT	ţ	بر ر م	5	Ы	CTG
TGC	×	AAG	ы	CTT	Ц	CLL	Ц	CTT	H	CTC	Ε	T. 0	474	Д	CCA
AAG	멌	AGG	ഗ	\mathtt{TCT}	×	AAA	E	ACA	E	ACA	Ė	Zi E	5	Ħ	ACT
ATG	Д	GAC	×	TAC	ტ	GGA	Д	GAC	×	TAC	Ĺ	ر ح لا 1	105	>	GTC
AGGA	ф	CCA	ſτι	TTC	Д	GAT	ഗ	TCA	Ċ	GGC	t	٦ ک F	, ,	×	AAG
AGAC	Д	CCT	. O	CAG	Ţ	TTT	Д	GAT	>	TAT	E	. T	7	ഗ	AGC
3AAG.	ኪ	TTT	Z	AAC	Н	CIC	H	CTG	C	CAA	,	7 K	141	M	$^{\mathrm{TGG}}$
AACT	Ø	GCA	ы	CTC	ഗ	AGT	×	AAA	Ü	GGG	ļ	Z 6	755	>	GTT
CTTT.	Ą	GCT	×	\mathtt{TAT}	Ω.	AGG	ტ	GGA	\triangleright	GTG	;	Z E	ኃ ቲ	Q	CAA
ŏ	ഗ	TCC	Ø	GCA	Z	AAC	₽	ACT	C	GAT	ŀ	⊢ لا ا (V V	Ы	CTA
	ц	CTT	Q	CAG	×	AAG	>	GTG	Δ.	CCA	ţ	۲ ر د	454 454	æ	GCT
	AAG TGC CTT CTG TCT CTG ATG GTT AAT TTT ATA ACA 6	GCTTTAACTGAAGACAGGA ATG AAG TGC CTT CTG TCT CTG ATG GTT AAT TTT ATA ACA 6 S A A F P D R K D K N E E N N Q L A 3	GCTTTAACTGAAGAGACAGGA ATG AAG TGC CTT CTG TCT CTG ATG GTT AAT TTT ATA ACA 6 S A A F P D R K D K N E E N N Q L A 3 TCC GCT GCA TTT CCT CCA GAC AGG AAG GAC AAA AAT GAG GAG AAC AAC CAA CTG GCC 12	S A A F P D R K D K N E E N N Q L A 3 TCC GCT GCT GAG GAG AAG GAC AAA AAT GAG GAG AAC CAA CTG GCC 12 A 3 TCC GCT GCA TTT CCT CCA GAC AGG AAG GAC AAA AAT GAG GAG AAC CAA CTG GCC 12 A Y L N Q F Y S L E I E G S H F V Q S 5	S A A F P P D R K D K N E E N N Q L A 3 TCC GCT GCA TTT CCT CCA GAC AGG AAG GAC AAA AAT GAG GAG AAC AAC CAA CTG GCC 12 A Y L N Q F Y S L E I E G S H F V Q S GCA TAT CTC AAC CAG TTC TAC TCT GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18	S A A F P D R K D K N E E N N Q L A 3 TCC GCT GCA TTT CCT CCA GAC AGG AAG GAC AAA AAT GAG GAG AAC CAA CTG GCC 12 A Y L N Q F Y S L E I E G S H F V Q S 5 GCA TAT CTC AAC CAG TTC TAC TCT CTT GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18 N R S L F D G K L R E M O A F F G L T 7	S A A F P P D R K D K N E E N N Q L A 3 TCC GCT GCT TCT CTG TCT CTG TCT CTG TCT CTG TTT ATT ATA ACA 6 A Y L N Q F Y S L E I E G S H F V Q S 5 GCA TAT CTC AAC CAG TTC TAC TCT CTT GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18 N R S L F D G K L R E M Q A F F G L T AAC AGG AGT CTC TTT GAT GGA AAA CTT CGG GAA ATG CAG GCA TTT TTC GGA TTT TTT TTC GGA TTT TTC TTC TTC TTC TTT TTC TTC TTT TTC TTC TTC TTT TTC TTC TTC TTT TTC TTC TTC TTC TTT TTC TTC TTT TTC TTC TTT TTC T	S A A F P P D R K D K N E E N N Q L A S T C C G C G C C C C C C C C C C C C C C	S A A F P D R K D K N E B N N Q L A S S C CTT CTG TCT CTG TCT CTG TTT TTT TTT ATA ACA 6 CC TT CTG TCT CTG TTT TTT TTT TTT TTT ATA ACA 6 CC TT CTG TCT CTG TTT TTT TTT TTT TTT T	S A A F P D R K D K N E E N N Q L A 3 TCC GCT GCT TTC CCC GAC AGG AAG GAC AAA AAT GAG GAG AAC CAA CTG GCC 12 A Y L N Q F Y S L E I E G S H F V Q S 5 GCA TAT CTC AAC CAG TTC TAC TCT CTT GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18 N R S L F D G K L R E M Q A F F G L T AAC AGG AGT CTC TTT GAT GGA AAA CTT CGG GAA ATG CAG GCA TTT TTC GGA TTG ACA 24 T G K L D S D T L A I M K V P R C G V 9 ACT GGA AAA CTG GAT TCA GCG ATC ATG GAA GTG CCC AGG TGT GGG GTA 30 T G K L D S D T L A I M K V P R C G V 9 ACT GGA AAA CTG GAT TCA GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 30 T G K L D S D T L A I M K V P R C G V 9 ACT GGA AAA CTG GAT TCA GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 11 T G K L D S D T L A I M K V P R C G V 9 ACT GGA AAA CTG GAT TCA GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 11 T G K L L D S C C T C TT GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 11 T G K L L D S C C T C TT GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 11 T G K L L C C C C C C C C C C C C C C C C C	S A A F P P D R K D K N E E N N Q L A A C C C C C A A A A C A C C C A A A A C A C A C A C A C A C A C A C A C C C C C C C C C C A C C A C C A C C A C C C C C C C C C C C C C C C C C C C C	S A A F P D R K D K N E E N N Q L A 3 TCC GCT GCA TTT CCT CCA GAC AGG AAG GAC AAA AAT GAG GAG AAC AAC CAA CTG GCC 12 A Y L N Q F Y S L E I E G S H F V Q S 5 GCA TAT CTC AAC CAG TTC TAC TCT CTT GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18 N R S L F D G K L R E M Q A F F G L T AAC AGG AGT CTC TTT GAT GGA AAA CTT CGG GAA ATG CAG GCA TTT TTC GGA TTG ACA 24 T G K L D S D T L A I M K V P R C G V 9 ACT GGA AAA CTG GAC ACA CTT GCG ATC ATG AAA GTG CCC AGG TGT GGG GTA 30 CAT GGA AAA CTG GAT TCA GAC CTT GCG TTG ACA GTG CCC AGG TGT GGG GTA 30 CAT GGA AAA CTG GAT TCA GAC CTT GCG TTG ACA ATG AAA GTG CCC AGG TGT GGG GTA 30 CAT GGA AAA CTG GAT TCA GAC CTT GCG TGC TGG TGG AGA AAC TAC ATG AAA TAC AGC CTT ACA TAC 36 CAT GTG GGG CAA TAT GGC TAC ACA CTC CCT GGG TGG AGA AAA TAC AGC CTT ACA TAC 36 CAT GTG GGG CAA TAT GGC TAC ACA CTC CCT GGG TGG AGA AAA TAC AGC CTT ACA TAC 36 CAT CTG GGG CAA TAT GGC TAC ACA CTC CCT GGG TGG AGA AAA TAC AGC CTT ACA TAC 36	S A A F P P D R K D K N E E N N Q L A 3 TCC GCT GCA TTT CCT CCA GAC AAG GAC AAA AAT GAG GAG AAC CAA CAA CAG GC TT TTT TTT TTT TTT TTT TTT TTT TTT	S A A F F P P D R K D K N E E N N Q L A A 3 TCC GCT CTG TCT CTG TCT ATT TTT ATA ACA 6 TCC CTT CTG TCT CTG TCT CTG TTT TTT ATA ACA 6 TCC CTT CTC ATC CTC CA ACG AAA AAT GAG GAG AAC AAC CAA CTG GCC 12 TC CTC AAC CTT CTT GAT ATT GAT GAG GAG ATT TTT GTC CAA AGC 12 ACA ACG ACT CTT TTT GAT CTT TAC TCT CTC GAA ATA GAA GGG AGT CAT TTT GTC CAA AGC 18 AACA ATG CAG ACT CAT TTT GTC CAA AGC 18 AACA CTG GAA ATG CAG GAG TTT TTC GGA TTG ACA ACG ACT CTT GAG AAA CTT CGG GAA ATG CAG GCA TTT TTC GGA TTG ACA ACG ACT CTT GAG AAA CTT CGG GAA ATG CAG GCA TTT TTC GGA TTG ACA ACG ACT CTT GAG AAA CTT GCG AAA CTT GCG AAA ATG CAG GAA ATG CAG GCA TTT TTC GGA TTG ACA ACG ACT CTT ACA ACG ACT CTT GAG AAA CTT GCG AACA CTT GCG ATG ACG TCT ACA TAC ACG ACT CTT ACA ACG ACT CTT ACG AAA ACG ACT CTT ACG AAA ACG ACT CTT ACG ACT ACG ACT ACG ACT ACG ACT ACG ACT ACG ACT ACG ACG ACG ACT ACG ACG ACT ACG	S A A A A TTT ATTA ACA 6 TGC CTT CTG TCT CTG ATG GTT AAT TTT ATTA ACA 6 TGC CTT CTG TCT CTG ATG GTT AAT TTT ATTA ACA 6 TCC CTT CTG AAG GAC AAA AAT GAG GAG AAC AAC CAA CTG GCC 12 TCC GCT GCA TTT CCT CTA GAC AAG GAC AAA AAT GAG GAG ACT TTT GTC CAA GG TTC TAC TCT TCT

Fig. 15F

173 540	193	213 660	233	253 780	273 840	293	302 927
D	T	L	A	D	G	R	
GAT	ACT	CTT	GCC	GAT	GGA	CGC	
F	D	F	T	D	S	F	
TTT	GAC	TTT	ACA	GAT	AGT	TTC	
H	G	L	Q	Q	P	T	
CAC	GGT	TTG	CAA	CAG	CCA	ACT	
R	G	N	D	S	K	T	
CGT	GGT	AAC	GAT	TCT	AAG	ACT	
PCCT	L CTA	F TTC	N AAT	L	TACC	I ATC	
C TGT	G GGT		S TCC	P CCA	TACC	A GCT	
W TGG	L CTG	E GAA	H CAC	$^{ m Y}$	V GTA	D GAT	
9 990 0	G GGT	9 9	S	K AAA	K AAG	F TTT	
H CAT	P CCT	D GAT	L CTG	S AGC	PCCT	T ACT	
V	P	k		P	P	L	
GTC	CCT	AAG	GGG	CCT	CCA	TTG	
G	F	A	L	D	S	T	
GGA	TTT	GCC	CTG	GAT	AGT	ACC	
T	A	I	S	L	G	CCC	R
ACA	GCC	ATA	TCT	CTG	GGA		AGG
R	H	N	H	S	Y	D	ი
AGG	CAT	TGG	CAC	TCC	TAT	GAC	ი
F	9	T	G	I	I	C	K
TTC	9	ACA	GGT	ATC	ATC	TGT	AAA
A	L	E	F	Y	S	A	F
GCA	CTT	GAA	TTT	TAC		GCC	TTT
I	V	D	E	N	Q	H	F
ATA	GTC	GAT	GAA	AAT	CAG	CAC	TTC
MATG	G GGA	E GAA	H CAT	P CCC	I ATC	P	M ATG
I	L	D	A	F	ტ	E	V
ATA	CTG	GAC	GCT	TTC	ტტტ	GAA	GTT
D GAT	PCT	F TTT	A GCT	M ATG	D GAT	STCT	E GAA
A	G	H	V	L	I	N	R
GCA	GGT	CAC	GTG	TTG	ATT	AAT	AGG

Fig. 15G

TAAACCTATTCCCTTGACACTCCAGCTTCTTATAAAGATGTTTTTTTT	100
CTCAGCTAGAAAGCCAGTTGCTGAGCATGTACCAGTACATCAGCAAGAGATTCTTCCTCAAGAAACAATGTAGAAACAA 108	108
TCAAAGAAAACACCCCAAGGGCAACCTGCAGCCTCCACACATAAGCACACATGCATTCACATGTATGCCCCCACATATGTGA 116	116
ACATGTAGGCACACATGCATGCATACCACAAACCACAAACTTAAGACTGAAACATGCTGATGGACACAGGTACCAGGACA 124	124
TCATTGATGAAATATTTTGTGTTTTAATGCAGG	127

322	\sim	342	\circ	9	1459	382		\circ	1579	422	1639
ഥ	TTC	IJ	CLL	Д	CCC	U	TGT	ſΞ	GAG	Н	ATT
W	TCC	IJ	CIC	≯	TAC	>	GTC	С	GAT	ტ	GGA
Ω	GAT	臼	GAG	დ	GGT	Ø	CCC	>	TAT	Д	CCA
н	ATT	О	GAT	Д	CCC	Ø	GCA	Ω	AGG	ſτι	TTC
ഥ	TTT	民	AGA	Ц	TTG	Q	GAT	Z	:: TGG	O	TGC
ы	GAG	ሷ	CCC	>	GTC	Н	ATT	ح .	TGC	ĸ	AAG
Ŀ	TTT	ഗ	AGC	ഗ	TCT	×	AAA	M	TGG	н	ATA
ы	GAG	闰	GAA	×	\mathtt{TAT}	×	AAG	H	ATC	Н	ATA
Ø	GCT	Ħ	TAT	ტ	GGA	Δ	GTG	כי	GGC	民	AGG
ტ	GGT	Ø	GCC	ĸ	AGG	ρ	CGT	\triangleright	GTT	0	CAG
Ø	GCT	ø	GCT	Н	ATC	ρ	AGA	ſχ	TTT	Д	CCA
н	ATT	Q	CAA	\triangleright	GTC	ρ	CCA	[x	TTT	ഥ	TTC
Д	GAT	IJ	CTT	Ŋ	TGG	Ĺτ	TTT	ĹŦ	TTC	ෆ	GGA
ഗ	TCT	Д	GAT	Ĺτι	$_{ m TTC}$	כי	GGA	E	ACC	ĸ	AGA
×	TAC	Ø	GCT	Z	AAT	<u> </u>	CTC	×	AAA	Д	GAC
Λ	GTC	Д	CCA	<u>ы</u>	GAG	E-	ACA	Ω	AGA	M	ATG
改	AGG	П	CTG	Ω	GAT	Ħ	CAC		ACA	Ø	GCA
M	TGG	ß	TCT	×	AAA	i —	ATC	ב	GAT	0	CAA
П	TTA	д	CCA	Ĺτι	TTT	ď	TCC	Ħ	CAT	Ø	GCA
Ħ	CAC	3	TGG	>	GTT	×	AAA	ב	GAT	Σ	ATG

Fig. 15H

442	462	482	502	511
1699	1759	1819	1879	1949
S	S	A	I	*
TCG	TCT	GCA	ATT	TAA CAATAAATTCCACAAATAAACCAAAACAAATCTTTTAACC
ი	N	K	S	TTTT
მემ	AAT	AAA	AGT	
H CAT	T ACC	G GGA	F	AATC
F	K AAA	K AAA	T ACT	AACA
F	I ATC	V GTC	CTC	CCAA
Y TAT	V GTG	S AGT	L	TAAZ
CTC	Q CAA	V GTC	S AGC	CAAA
F	T ACC	N AAT	$_{ m TTA}$	בט⊃די.
GGA	I ATC	F	R AGG	דאבאני
N	N	s	K	CAAT
AAT	AAT	TCA	AAA	
H	K	A	H	*
CAT	AAA	GCA	CAT	TAA
CAA	A	N	H	N
	GCG	AAC	CAT	AAT
F	K AAG	L TTA	L TTA	YTAC
V	M	P	I	T
GTC	ATG	CCA	ATA	ACA
A	D	E	V	K
GCT	GAC	GAA	GTG	AAA
D	Y	N	T	T
GAT	TAT	AAC	ACA	ACA
V	E	C	9	L
GTG	Gaa	TGT	990	CTG
R	F	L	I	V
CGT	TTT	CTG	ATT	GTG
CTC	Q	F	S	H
	CAA	TTC	TCA	CAT
CGC	R	¥	N	V
	AGG	∏GG	AAT	GTT

Fig. 15I

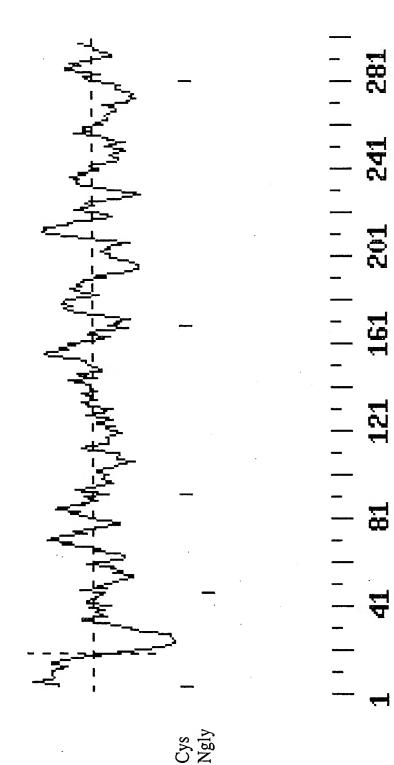


Fig. 15J

	130 7DEAIQE 7::::: 7DEAIQK 130	200 DENW-T :::: . DETWIA 200	270 PAKPKE ::: TTKPSG 270
60 LIDDKI :.:.: LFDGKL 60	120 YTPDMARAAVI :::::::: YTPDMTPADVI	GDTHFDE!	O YGGLPKV: ::. ::: YGSPPKV'
VQSKNRS :::::: VQSKNRS	120 RIINYTPI :::::: RIMNYTPI 120	190 PPGPGLG ::: ::: PPGLGLG	260 INGIQSIY :.::::: IDGIQSIY 260
50 SLEIEGNHL SLEIEGSHF	110 SWRKYNLTY ::::::: SWRKYSLTY 110	180 PLGVLGHAF :::::::: PLGVLGHAF 180	250 KKYPLSQDD :::::::: KKYPLSQDD 250
40 2AYLNQFYS ::::::: 2AYLNQFYS	100 3QYGYTLPG :::::::: 3QYGYTLPG 100	170 RCPRYFDGE .::::::: WCPRHFDGE 170	240 PNYVSLDPR :::::: PNYISLDPS 240
20	90 'PRCGVPDV' :::::::: 'PRCGVPDV' 90	50 160 200 ISKGIADIMIAFRTRVHGRCPRYFDGPLGVLGHAFPPGPGLGGDTHFDEDENW-T ::::::::::::::::::::::::::::::::::::	220 250 260 270 FIGHALGLSHSNDQTALMFPNYVSLDPRKYPLSQDDINGIQSIYGGLPKVPAKPKE :::::::::::::::::::::::::::::::::::
20 FPLVRMTE :: :. FPPDRKDK 20	NTLEIMKT	1 KGIADIMI ::::::: KGVADIMI	O HALGLSHS :.:::::: HSLGLSHS
O FFITFSSA :::.:: NFITLSAA	80 IVTGKLDS ::::::: IVTGKLDS 80	150 PLKFTKIS: :: :::: PLTFTRIS: 150	220 :VAAHEFGH; ::::::::::::::::::::::::::::::::::::
10 20 40 50 60 human MKRLLLLFIFFITFSSAFPLVRMTENEENMQLAQAYLNQFYSLEIEGNHLVQSKNRSLIDDKI ::::::::::::::::::::::::::::::::::	70 80 130 REMQAFFGLTVTGKLDSNTLEIMKTPRCGVPDVGQYGYTLPGWRKYNLTYRIINYTPDMARAAVDEAIQE ::::::::::::::::::::::::::::::::::::	140 150 200 human GLEVWSKVTPLKFTKISKGIADIMIAFRTRVHGRCPRYFDGPLGVLGHAFPPGPGLGGDTHFDEDENW-T .:::::::::::::::::::::::::::::::::::	210 220 240 250 270 270 270 270 250 250 270 270 270 270 250 270 270 270 270 270 270 270 270 270 27
human murine	human murine	human murine	human murine

Fig. 15K

280 340 340 340 340 340 320 340 340 340 340 human PTIPHACDPDLTFDAITTFRREVMFFKGRHLWRIYYDITDVEFELIASFWPSLPADLQAAYENPRDKILV ::::::::::::::::::::::::::::::::::::	350 360 400 410 FKDENFWMIRGYAVLPDYPKSIHTLGFPGRVKKIDAAVCDKTTRKTYFFVGIWCWRFDEMTQTMDKGFPQ ::::::::::::::::::::::::::::::::::::	420 430 440 450 460 470 480 RVVKHFPGISIRVDAAFQYKGFFFFSRGSKQFEYNIKTKNITRIMRTNTWFQCKEPKNSSFGFDINKEKA :::::::::::::::::::::::::::::::::::	
320 IDVEFELIAS: ::: : AGAEFEFIDS:	390 CDKTTRKTYF1 :: :::: CDHDTRKTFF1 390	460 KNITRIMRTNT::::KNITQVIKTN8	
310 XHLWRIYYDI :::::::: XHLWRVYSDI 310	380 SRVKKIDAAVC ::::::: RRVKKIDAAVC 380	450 SKQFEYNIKTI .:::::: SRQFEYDMKAI	, YQ
300 'RREVMFFKGI :::::::: 'RREVMFFKGI	370 KSIHTLGFPC :::::::: KSIHTLGFPI 370	430 AAFQYKGFFFFSRGS : . : . : . : .: AVFQHNGFLYFFHGS 30	500 510 LFIFGIVHLLKNTSIYQ : .: :::: .:. LLTFSIVHVLTKTYN 500 510
290 DLTFDAITTF ::::::: TLTFDAITTF	360 RGYAVLPDYE ::::::::: RGYSVLPGYE 360	430 SIRVDAAFQY .::::::: RLRVDAVFQH	500 HKSLSLFIFG :: :: :: HKRLSLLTFS
280 PTIPHACDP . ::::: NSEPHACDP 280			490 HSGGIKILYHKSLS: ::::::::: NSIGTVILHHKRLS: 490
human murine	human murine	human murine	human murine

Fig. 15L

human cGGACGCGGTGGCCGGCGCGCGCGCGCGCGCGCGCGCGCGC	190 200 210 220 230 240 250
-------------------------------------------------	-----------------------------

Fig. 15M

290 340 350 350 350 350 350 350 350 350 350 35	360 370 380 400 400 420	430 440 450 460 470 480 490 CTGTGGAGGATGTGGAGCAAAGTCACTCCACTAAAATTCACCAAGAT ::::::::::::::::::::::::::::::::::	human TTCAAAGGGGATTGCAGACATCATGATTGCCTTTAGGACTCGAGTCCATGGTCGGTGTCCTCGCTATTTT .:::::::::::::::::::::::::::::::
290 CTCAAACACCC :::::::: TTCAGACACAC 260	360 CTCCCTGGGTGGA ::::::::::: CTCCCTGGGTGGA 330	430 CTGTGGATGAGGC :::::::::: ATGTGGATGAGGC 400	500 TTCAAAGGGGA .::::::: ATCCAAGGGGG'
human CTCZ :: murine TTCZ	human CTCC ::: murine CTCC	human CTG: :: murine ATG: 400	human TTC? ::: murine ATCC
hui mu:	hui mu:	hui mu	hur mu

Fig. 15N

580 620 630 AGTGCTTGGCCATGCCTTTCCTCCTGGTCCGGGTCTGGGTGGTGACACTCATTTTG :::::::::::::::::::::::::::::::::	650 670 680 690 TGGACCAAGGATGGAGCAGGATTCAACTTGTTTCTTGTGGCTGCTCATGAATT ::::::::::::::::::::::::::::::::	720 730 740 750 760 760 760 760 760 760 760 760 760 76	770 780 830 810 820 830 SATCCCAGAAAATACCCACTTTCTCAGGATGATATCAATGGAATCCAGTCCATCTATGGAGGTCTGCCTA ::::::::::::::::::::::::::::::::::::
590 CCATGCCTTTCCT :::::::::::::::::::::::::::::	660 AAGGATGGAGCAGGGGGGGGGGGGGGGGGGGGGGGAAGGGAAGGGAAGGGAAGGGAAGGGG	730 ACTCCAATGATCA :::::::::::: ACTCCAATGATCA	800 TCAGGATGATATC ::::::::::::::::::::::::::::::::::
0 TTGGGAGTGCTTGG(::::::::: CTGGGAGTCCTTGG 550	650 AAACTGGACC :::::: AACATGGATAGCC 620	710 CTGGGGCTCTCTC.::::::::::::::::::::::::::	780 AAATACCCACTTTC' ::::::::::: AAATACCCACTTTC' 760 770
570 human GATGGTCCCTTGGG :::::::::::::::::::::::::::	640 human ATGAGGATGAAAAC :::::::: murine ACGAAGATGAAACA 610 620	710 human TGGTCATGCACTGG :::::: murine TGGTCACTCTGG 680	770 780 human GATCCCAGAAATA:::::::::::::::::::::::::::
human murine	human murine	human murine	human murine

Fig. 150

Fig. 15P

human	n 950	
nurine	murine CACCCAAGGGCAACCTGCAGCTCCACATAAAGCACATGCATTCACATGTATGCCCCACATATGTGA 1100 1110 1160 1160	ACATGCATTCACATGTATGCCCCACATATGTGA 1140 1150 1160
human		
urine	murine ACATGTAGGCACACATGCATGCATACCACAAACCACAAACTTAAGACTGAAACATGCTGATGGACACAGG 1170 1180 1190 1200	AACTTAAGACTGAAACATGCTGATGGACACAGG 1210 1220 1230
human		960 970 CACCTATGGAGGATCTATTATGATATCA
urine	murine TACCAGGACATCATTGATGAAATATTTTGTGTTTAATC 1240 1250 1260	GATGAAATATTTGTGTTTAATGCAGGCACTTATGGAGGGTCTACTCTGATATTG 1260 1270 1280 1290
human murine	980 1000 1010 1020 1040 human cggatgtttgaatttaattgcttcattctggccatctgccagctgatctgcaagctgcatacga :::::::::::::::::::::::::::::::::::	1020 1030 1040 ATCTCTGCCAGCTGATCTGCAAGCTGCATACGA :::::::::::::::::::::::::::::::::::

Fig. 15Q

1050 1060 1070 1080 1090 1100 1110 human GAACCCCAGAGATAAGATTTTTTAAAGATGAAACTTCTGGATGATCAGAGGATATGCTGTCTTG .:::::::::::::::::::::::::::::::::::	1120 1130 1140 1150 1160 1170 1180 CCAGATTATCCCAAATCCATACATTAGGTTTTTCCAGGACGTGTGAAGAAATAGATGCAGCCGTCT ::::::::::::::::::::::::::::::::	1190 1200 1250 1230 1240 1250 GTGATAAGACCACAAAAACCTACTTTGTGGGCATTTGGTGCTGGAGGTTTGATGAAATGACCCA :::::::::::::::::::::::::::::::::	1260 1270 1280 1290 1300 1310 1320 human AACCATGGACATTCCCGCAGAGTGGTAAAACACTTTCCTGGAATCAGTATCCGTGTTGATGCT :::::::::::::::::::::::::::::::::::
1100 ATGATCAGAGA ::::::::: STCATCAGGGA	1170 rgaagaaaat. :::::::::: rgaagaaaat'	1240 CTGGAGGTTT :::::::: CTGGAGGTAT	1310 GAATCAGTA' ::::: GGAATTCGCC' 1640
1090 AACTTCTGG2 :::::::::::::::::::::::::::::::::::	1160 :::::::::::::::::::::::::::::::::::	1230 CATTTGGTGC :::::::::::::::::::::::::::::::	1300 CACTTTCCTG .::::::::::::::::::::::::::::::::::::
1080 TAAAGATGAA ::::::::: TAAAGATGAG 1410	1150 TTAGGTTTTC : ::::: CTCGGATTTC 1480	1220 TCTTTGTGGG : :::::: TTTTGTTGG	1290 AGTGGTAAAA ::::: GATAATAAAG
1070 FTCTGGTTTT : :: :::: FCCTTGTTTT 1400	1140 CATCCATACA ::::::::: CATCCACACA	1210 aaaacctact :::::::: aaaaccttct 1540	1280 FCCCGCAGAG::::::::::::::::::::::::::::::
1060 NGAGATAAGA ::::::: NGAGATGAGC 1390	1130 ATCCCAAATC ::::::: ACCCCAAATC	1200 ACCACAAGAA ::::: AGATACAAGAA	1270 ;ACAAAGGAT; ::::::::::;ACAGAGGAT;
1050 GAACCCCA :::::: = AAGCCCCA	1120 113 human CCAGATTATCCCAA :::::::::::::::::::::::::::::	1190 120 human GTGATAAGACCACA ::::: : :::::::::::::::::::::::::	1260 127 AACCATGGACAAAG :::::::::::::::::::::::::::::::
human murine	human murine	human murine	human murine

Fig. 15R

BACAA : BGCGA	TTGG	SCTTG SCTTG	1600 CCTAA CCAAA
1330 1340 1350 1360 1370 1380 1390 GCTTTCCAGTACAAAGGATTCTTCTTTTTCAGCCGTGGATCAAAGCAATTTGAATACAACATTAAGACAA : ::::: :::::::::::::::::::::::::::	1400 1410 1420 1430 1440 1450 1460 AGAATATTACCCGAATCATGAACTAATACTTGGTTTCAATGCAAAGAACCAAAGAACTCCTCATTTGG :.::::::::::::::::::::::::::::::::	1470 1480 1500 1500 1510 1520 1530 TTTTGATATCACAAGAAAAGCACATTCAGGAGGCATAAAGATATTGTATCATAAGAGTTTTAAGCTTG : : . : : : : : : : : : : : : : : : : :	1600 1560 1570 1580 1590 1600 "IGTICALTITGCIGAAAACACTICIATITATCAATAAATTCATAGACCTAA
ACAAC : .:: ATGAC	GAACT .:: AAACG 1	AAGAG :::: AAAAG 0	 CACAA 0
1380 TTGAAT:::::: TTGAAT	1450 ACCAAA(:::::. ACCATT/	1520 PATCATA :::::: PATCATA 1850	1590 AATTC- ::::: AATTCC 1920
CAATT ::::::::::::::::::::::::::::::::::	AAGAA :::: ACGAA	ATTGT :::. ATTAC	CAATP :::::::::::::::::::::::::::::::::::
1370 TCAAAG :::::: TCGAGG	1440 AATGCA ::: TGTGTA	1510 AAAGATA :::: AGTGATA 1840	1580 ATTTATC .:::: AATTAAC 1910
TGGAT::::::::::::::::::::::::::::::::::	TTTCZ	GCATA:::::::::::::::::::::::::::::::::::	TTCT?:::
1360 CAGCCG : . ::. CTTCCA	1430 ACTTGG .::::: TCTTGG	1500 CAGGAGG ::. :: CAATTGG	1540 1580 1590 TTTATTTTGGTATTCATTTGCTGAAAACACTTCTATTTATCAATAAATTC- :::::::::::::::::::::::::::::::::::
) TTTTT : - : : : PATTT) TTAAT; SCAAT;) ACATT(: ::: AAATT() TIGAAL TIGACL
1350 TCTTCT' :: ::: TCCTCT.	1420 GAGAAC' : . : : CAAAAC' 1750	1490 aaagcac :::::: aaagcaa 1820	1560 ATTTGCT :: :::: ATGTGCT 1890
AGGAT) NTCATO : :: STGATO) \GGAA; \.:.: \AGGA!	0 TGTTCZ ::::: TGTTCZ 80
1340 TACAAA : ::. CATAAT	1410 CCCGAA ::::: .CCCAAG	1480 CAACAA :: :	1550 3GTATT .::::
30 TTCCAGTACAA :::::::: TTCCAACATAA 1670	'ATTAC ::::: 'ATCAC	470 TTGATATCA ::.: TCAGTGTCA	1540 TTATTTTTGGTAT : ::: :::: TCACTTTCAGTAT 1870
1330 GCTTT(::::::::::::::::::::::::::::::::::	1400 AGAAT :.::: AAAAT 1730	1470 TTTTG; : : . TGTCA(1540 TTTATTTTTGGTAT : ::: :::: CTCACTTTCAGTAT 1870
1330 134 human GCTTTCCAGTACAA : ::::: :: murine GTCTTCCAACATAA 1660 1670	1400 141 human AGAATATTACCCGA :::::::::::::::::::::::::::::::::	1470 148 human TTTTGATATCAACA ::::::: murine TGTCAGTGTCA 1800 18	human murine

Fig. 15S

rig. 151

Fig. 15U

Fig. 15U

210 MKRLLLIFLFITFSSAFPLVRMTENEENMQLAQAYLNQFYSLEIEGNHLVQSKNRSLIDDKIREMQ : : : : : : : : : : : : : : : : : : :	190 190 ::::::::::::::::::::::::::::::::::::
20 30 ITFSSAFPLVRMTENEENMQLAQ2 : : :	170 170 : : : : : : : : : : : : : : : : : : :
20 FSSAFPLVRI 20 20 SIMKTPRCGV	160 SIADIMIAFI ::::::: SEADINIAFY 160 160 GLSHSNDQT :::::::
10 210 MKRLLLLFLFFITE : : : : : :	140 150 WSKVTPLKFTKISKG : : : : : : : : : : : : : : : : :
210 M : : MMP-8 MFS 210 AFF ::	14 210 EVWS: :::: MP-8 ELWS' 140 210 210 210 210 210 210 210 210 210

Fig. 15V

210 MMP-8	280 330 340 210 PHACDPDLTFDAITTFRREVMFFKGRHLWRIYYDITDVEFELIASFWPSLPADLQAAYEN-PRDKILVFK : .:::::::::::::::::::::::::::::::::::	290 AITTFRREVMF::::::::::::::::::::::::::::::::::::	300 FKGRHLWRIYN::::::::::::::::::::::::::::::::::::	310 YDITDVEFEL : PQLQRVEMNF 310	340 340 340 340 340 340 310 320 330 340	330 NDLQAAYEN-PH :::::	340 RDKILVFK :: ::: RDLIFLFK 340
210 MMP-8	350 360 410 210 DENFWMIRGYAVLPDYPKSIHTLGFPGRVKKIDAAVCDKTTRKTYFFVGIWCWRFDEMTQTMDKGFPQRV: :::::::::::::::::::::::::::::::::	360 VLPDYPKSIHT .::: ILQGYPKDISN 360	370 LGFPGRVKKII :::::: YGFPSSVQAII 370	380 DAAVCDKTTR :::: DAAVFYRS	390 KTYFFVGIWCV :::::: KTYFFVNDQFV 390	400 VRFDEMTQTMI ::::::::::::::::::::::::::::::::::::	410 OKGFPQRV : ::: . EPGYPKSI 410
210 MMP-8	420 430 440 450 460 470 480 210 VKHFPGISIRVDAAFQYKGFFFFSRGSKQFEYNIKTKNITRIMRTNTWFQCKEPKNSSFGFDINKEKAHS ::::::::::::::::::::::::::::::::::::	430 IRVDAAFQYKGFFF: .::::: SKVDAVFQQEHFFH	440 FSRGSKQFEYI : VFSGPRYYAFI 440	450 NIKTKNITRI :: OLIAQRVTRV 450	0 450 460 GSKQFEYNIKTKNITRIMRTNTWFQCKE ::::::::::::::::::::::::::::::::::	470 3PKNSSFGFD]	480 INKEKAHS
210	490 500 510 210 GGIKILYHKSLSLFIFGIVHLLKNTSIYQ	500 SLFIFGIVHLL	510 KNTSIYQ				
MMP-8			YG				

Fig. 15W

უ [⊢	H · A	0 K K O	ဝေဖံ့ ပဝ
7 7 7 7 7 7 7 7 7 7	raaa : : : 0	200 TGCA :::: TGCA	270 CAGG: :TCGC
60 TAG :	130 TTGA ::: TTAC 130	444: ::: 444:	.:: .::
.:: 3001 60	CTC ::- CAA	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	AGAC
rttc AAGC	racj ::: rac-	190 ATTC(:: CTTA	260 rgaa(:::: rgaa) 260
50 GCA/ : TCC/	120 1170 1170 120	AAAA. ::- AAGG	TCA! TGA!
. : !ATT 50	CAG :: AAG	GAC :: GAA	: : !ACA!
20 30 40 50 50 60GCTTCTGTTTTGTTCTTTATAACATTTTCT-TCTGCATTTCCCTTAGTCCG ::::::::::::::::::::::::::::::::::	70 80 130 GATGACGGAAAATGAAGAAAATA-TGCAACTGGCTCAGGCATATCTCAACCAGTTCTACTCTCTTGAAAT : : : : : : : : : : : : : : : : : : :	10 180 190 200 "TTGTTCAAAGCAAGAATAGGAGTCTCATAGATGACAAAATTCGGGAAATGCA ::::::::::::::::::::::::::::::::::::	220 230 240 250 250 270 270 270 270 270 270 270 270 270 27
0 ITTTJ : : I'GTC	110 110 110	CATA :: GATC	ACCC :::
40 ACAT ::: -CAT	110 : * : : .: .: .: .:	TCT(: : TGT(AAC) .: GAA)
'ATA : CTC	.: GGA	170 GAG: ::	240 TCA GAG(
) ::::: ::::::	100 100 100		GGAC :
30 31 31 31 31 31 31 31 31 31 31	TGG(ATAC	ACTC
TTTG(: :: TCTG(30	AAC' AAC'	AGAZ ::: AGAZ 160	230 230 .:: 1390 230
) GTT .::	90 -TGC .CAAA 90	0 TGTTCAAAGCAAGAATAG : :.:::::::::: TCTACAAGG-AAGAATGG 150	210 220 230 ATTTTTGATTGACAGTGACTGGAAAACTGGA :::::::::::::::::::::::::::::::::::
20 FTCT:::	ATA-	AAA:::.	::: :::
-607 ::: 0607	4444 :::::	0 TGTTC : : : TCTAC	220 .cag1 .:: ATG1 220
GA	0 AAG2 3 AGA2	150 CTTC - 17(TGA(::: TGAZ
TCT : :TGA	80 ATGA :-:: AAGA 80	CAT :: CAG	GAT' : · : GGT'
10 300TT 10 10	saaa .: cta	AAT: .:: TAT:	210 TTTG:::: TTTG
4GCG) ACGG .: PCTT	140 140 140	2 1111 1:::: 1111
10 ATGAAGCGCCTT(:::::: ATGTT-CTCCCT(70 ATGA(:	GAAC :: CAAC	210 AGCATTTTTTGGATT . ::::::::::: GCGATTTTTTGGGTT
10 210 ATGAAGCGCCTTCT- :::.:::::	ან დ ი თ	140 210 AGAAG-GGAATCATC . :: .:.::: P-8 GCAACCAGTATCAG- 140	0 A 8 .??
10 210 ATGAAGCGCCTTCT- :::::::	70 80 100 110 110 130 130 130 130 120 130 130 120 130 210 GATGACGGAAAATA-TGCAACTGGCTCAGGCATATCTCAACCAGTTCTACTCTTGA :::::::::::::::::::::::::::::::::::	140 210 AGAAG-GGAATCATC . :: .:::: MMP-8 GCAACCAGTATCAG- 140	210 220 230 240 250 250 270 270 250 250 270 270 210 AGCATTTTTGACACACGACACCCCAGGACACACCCCATGAGATCATGAGACACCCAGGGGGGGG
Z	Σ	Σ	Σ

Fig. 15X-1

Fig. 15X-2

Fig. 15X-3

890 TGTTCTTT:::::::::::::::::::::::::::::::	960 CTTCATTC :: ::: CTCTATTC 960	1030 GGTTTTTA ::::: CCTATTTA 1030	CATACAT :::::: :TCAAAC-T 1100
880 *GAGAAGTAA ::::::: 3GAGAAATAC 880	950 3AATTAATTG .:::::: AATTTTATTT 950	1010 1020 103 -CAGAGATAAGATTCTGGTTTTT.::::::::::::::::::::::::::::	1090 CAAATCCATC ::: :: CAAGGATATA
830 860 870 890 210 ACCCCATGCCTGACTTGACTTTTGACGCTATCACAACTTTCCGCAGAGAAGTAATGTTCTTT :::::::::::::::::::::::::::::::	10 920 930 940 950 960 ATGGAGGAT-CTATTATGATATCACGGATGTTGAGTTTGAATTAATTGCTTCATTC :::::::::::::::::::::::::::::::	970 980 1000 1000 1010 1020 1030 1030 1030 103	1050 1060 1070 1080 1090 TGGATGATCAGAGGATATGCTGTCTTGCCAGATTATCCCAAATCCATC-CATACAT ::::::::::::::::::::::::::::::::
860 CGCTATCACA ::::::: TGCTATCACC	930 TATCACGGAT : .:: CTACAAAGA- 930	1000 TACGAGAACC :::::: TATGAAGATT	1070 CTGTCTTGCC :.: ::: ATATTCTGCA
850 TGACTTTTGA :::::::: TGACATTTGA 850	920 -CTATTATGA ::: 3CATCCTCAG	990 3CAAGCTGCA .::::::	1060 AGAGGATATG ::::::: AGTGGCTATG
40 SACCCTGACT' SECCCAGTT'	10 ATGGAGGAT:::::: CTGGAGAAG	980 AGCTGATCT(:.:::: AACTGGTAT/ 980	1050 TGGATGATC: :::.::
830 CCATGCCTGTG : ::::: CAAACCCTGTG	900 210 AAAGGCAGGCACCT :::::::::: P-8 AAAGACAGGTACTT 900	970 CATCTCTGCC :::::::::::::::::::::::::::::::	1040 1050 210 AAGATGAAACTTCTGGATG :::. :: ::::: P-8 AAGGCAACCAATACTGGGCTG
830 850 860 870 890 890 890 890 890 890 890 890 890 89	900 910 950 930 940 950 960 210 AAAGGCAGCACCTATGAGATTATGATATCACGGATGTTGAGTTTGAATTAATT	970 980 1000 210 TGGCCATCTCTGCCAGCTGATCTGCAAGCTGCATACGAGAA(::::::::::::::::::::::::::::::::	1040 1050 1060 1070 1080 1090 210 AAGATGAAACTTCTGGATGATCAGAGGATATGCTGTCTTGCCAGATTATCCCAAATCCATC-CATACAT :::.:::::::::::::::::::::::::::::::::

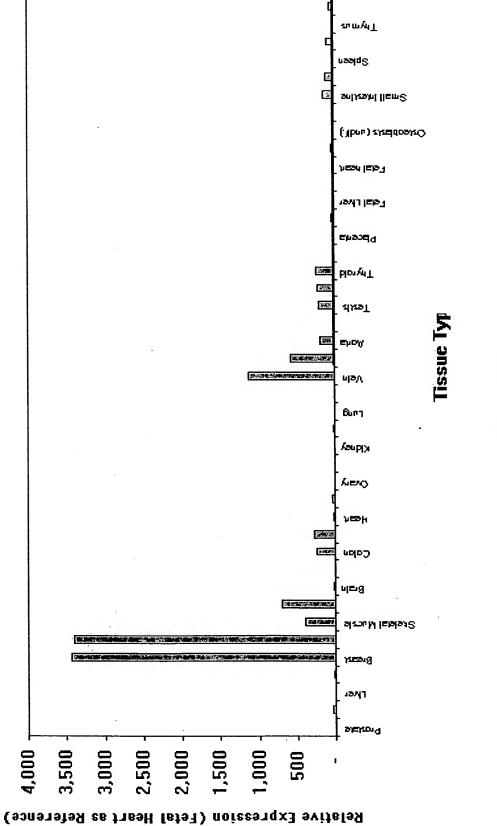
Fig. 15X-4

1100 1110 1120 1130 1140 1150 1160 210 TAGGTTTTCCAGGACGTGTGAAAATAGATGCAGCCGTCTGTGATAAGACCACAAGAAAACCTTT::::::::::::::::::::::::::::::::	1170 1180 1190 1200 1210 1220 1230 210 CTTTGTGGGCATTTGGTGTTTTGATGAATTGACCCAAACCATGGACAAAGGATTCCCGCAGAGA :::::::::::::::::::::::::::::	1240 1250 1260 1270 1280 1290 1300 210 GTGGTAAAACACTTTCCTGGAATCAGTATCCGTGTTGATGCTGCTTTCCAGTACAAAGGATTCTTTTTTTT	1310 1320 1330 1340 1350 1360 1370 210 TCAGCCGTGGATCAAGATTACAACATTAAGACAAAGAATATTACCCGAATCATGAGAACTAA :::::::::::::::::::::::::::::::::
1140 CAGCCGTCT :::: CAGC	1210 AATGACCCA	1280 GTTGATGCT .::::	1350 TTAAGACAAA(: A(
1130 AAATAGATG :::::: :CAATTGACG	1200 GTTTGATGA .:.::: ATATGAT	1270 AGTATCCGT: :::: A-TATC 1240	1330 1340 AGCAATTTGAATACAACAT :::::::::::::::::::::::::::::
1120 CGTGTGAAGA : :: : AGCGTCCAAG	0 1180 1190 1200 CTTTGTGGGCATTTGGTGCTGGAGGTTTGATG ::::::::::::::::::::::::::::::::::::	1260 1270 CTTTCCTGGAATCAGTATCC ::::::::::::	1330 AAGCAATTTG :::.:: GCAGTTT- 1280
1110 :: :: :: :: :: :: :: :CTTCCCCAGC	1180 CTTTGTGGGCATTT(::::::::::::::::::::::::::::::::::	1250 FAAACACTT : :TA	1320 AGCCGTGGATCA ::::: GTTGAT 1270
1100 1110 1120 1130 1 210 TAGGTTTTCCAGGACGTGTGAAGAAAATAGATGCAGCCC :::::::::::::::::::::::::::::::::	1170 210 CTTT(:::: MMP-8 CTTT(1170	1240 210 GTGGTA ::: MMP-8 CAGGT- 1220	1310 210 TCAGO MMP-8

Fig. 15X-5

AGCACAT:::	0 CATTTGCTGA : ::::. C-TTAACTGT 1390	
1440 AAGGAAAAA ::: AGAGAGTT7	1510 TTGTTCAT' : :	
1380 1390 1400 1410 1420 1430 1440 210 TACTTGGTTTCAATGCAAAGAACTCCTCATTTGGTTTTGATATCAACAAGGAAAAGCACAT ::::::::::::::::::::::::::::::::::	1450 1460 1470 1480 1490 1500 1510 210 TCAGGAGGCATAATTGTATCATAAGAGTTTTAAGCTTGTTTTTTGTTCATTTGCTGA ::::::::::::::::::::::::::::::::::::	
1420 ATTTGGTTTT :::::::::: ATTTGATCTT 1340	1490 AGCTTGTTT7 ::.	
1410 AGAACTCCTC : : : : SATATTACGC 1330	1480 FAAGAGTTTA : : AGAG	
1400 AAGAACCAAA :.::: .GTGGACCAAC	1470 TATTGTATCATAAG :::::::: GTTGCAAGAG	AA
1390 TTTCAATGCA :::::: TCTTCA	1460 GCATAAAGAT.	1520 210 AAAACACTTCTATTTATCAA ::: ::: :: : :P-8 AGATATGGC
TACTTGGT	1450 1. 210 TCAGGAGG :::. MMP-8 -CAGA	1520 210 AAAACACT' ::: MMP-8 AGA
1380 210 TZ MMP-8	1450 210 TC MMP-8 -C	1520 210 Ai : :

Fig. 15X-6



гу триломе

Fig. 15Y

79

218 739 238 799 258 859 298 979 198 679 278 919 178 619 R AGG A GCC S AGC R CGG AGT V GTC Γ CTG 9 9 9 T ACG H L CTA A GCC Q CAG 9 9 9 9 A GCG Q CAG P CCC CFC L CTG EGAG PCCT S ICA S AGT H 7 7 7 8 8 N AAC S ICT ත වූ වූ F FTT СĊŢ CAC CCC CCC N AAC . GGG Γ P V GTG r CTG T ACG V GTG ₩ TGG D GAT H EGAG CCC CCC L T ACG A GCC L CTG E GAG L T ACA A GCT V GTG F R S AGC LCTT R CGT CTG GGA CTG A GCC H N AAC L CTG G GGC F TTC A GCA N AAC T ACC S TCT I ATT L CTG G GGC MY G GGA V GTG L S AGC L CTG g GGC CGC S AGT N AAC N AAC Q CAG S TCA ი მმმ CCC CCC S TCG L L V GTC A GCG A GCG H I ATT CIT P K AAG E GAG S F CCC T ACC L L D 3AC . 2GG L CCC D GAC A GCC EGAG N AAC L CTG CHC D GAC A GCG R CGA GGT PCCT 999 EGAG Q CAG V GTG PCCT L P L Q CAG S ICG N AAC H GGT N AAC R AGG CTG CTG L L H L 9 9 9 CCC CCC I ATT Q CAG STCC D GAC S AGC S AGC A GCA A GCC V. GTC L CTG CTG V GTG

Fig. 16B

318 1039 338 1099 354 1147 CGC H R CGG CTG C TGC A GCC V GTG R CGG K AAG VGTG * TGA T R E S A A R G P T I L ACC CGG GAA TCT GCT GCC AGG GGC CCC ACC ATC TTG CCC D GAT Q CAG S AGC S TCC g GGC g GGC VGTG S AGC PCCT GTC R AGG s AGC CGG Q CAG CCC Γ $^{
m Y}_{
m TAC}$ T ACC A GCA ი მმ P CCG CTC E GAG V D GTA GAC A H CAC R CGG CFC V GTG ာ TGC (CTC L

1779 1858 1937 1384 1463 1542 1621 1700 2016 GCCCATGGCCCAGTCACTCAGGGGGGAGTTTCTTTTTTAACATAGCCCTTTTCTTTGCCATGAGGCCATGAGGCCCGCTT CAAATGGTGTGGCCCAGGGCCACATAACAGACTGCTGTCCTGGGCTGCCTCAGGTCCCGAGTAACTTATGTTCAATGTG CCAACACCAGGGGGGGGGCCCGCCGCGCCTATGTGGCAGCGTCACCACAGGAGTTGTGGGCCCTAGGAGAGGCTTTGGACCT GGGAGCCACACCTAGGAGCAAAGTCTCACCCCTTTGTCTACGTTGCTTCCCCAAACCATGAGCAGAGGGACTTCGATGC ACCCGCAATGGGCAGAGGGTGGGTGGGACCCCCTGCTGCAGGGCAGAGTTCAGGTCCACTGGGCTGAGTGTCCCTTGG CATCCTTTTCTATTTCCCTAGAACCTTAATGGTAGAAGGAATTGCAAAGAATCAAGTCCACCCTTCTCATGTGACAGAT GGGGAAACTGAGGCCTTGAGAAAAAAAAGGCTAATCTAAGTTCCTGCGGGCAGTGGCATGACTGGAGCACAGCCTCCT GCCTCCCAGCCCGGACCCAATGCACTTTCTTGTCTCCTCTAATAAGCCCCCACCCTCCCCGCCTGGGCTCCCCTTGCTGC CCTTGCCTGTTCCCCATTAGCACAGAGTAGCAGCAGCAGGACAGGCAAGAGACTCACAAGTGGGACTCTGGGCCTCTG accagetgtgeggcatgggctaagtcactetgecetteggageeteggaagettaggaagettagggeaeattggttecageetaage CAGTITICTCACCCTGGGGTTGGGGGTCCCCCAGCATCCAGACTGGAAACCTACCCATTTTCCCCTGAGCATCCTAGATG SGCCCTGAGCACGACAGCCCTTCTTACCCTCCCAGGAATGCCGTGAAAGGAGACAAGGTCTGCCCGACCATGTCTATG

Fig. 16C

CTCTACCCCCAGGGCAGCATCTCAGCTTCCGAACCCTGGGCTGTTTCCTTAGTCTTTTTTTATAAAAGTTGTTGCCTT 2332	2332
TTTAACGGAGTGTCACTTTCAACCGGCCTCCCCTACCCCTGCTGGCCGGGGATGGAGACATGTCATTTGTAAAAGCAGA 2411	2411
AAAAGGTTGCATTTGTTCACTTTTGTAATATTGTCCTGGGCCTGTGTTGGGGGTGTTGGGGGGAAGCTGGGCATCAGTGGC 2490	2490
CACATGGGCATCAGGGGCTGGCCCCACAGAGACCCCACAGGGCAGTGAGCTCTGTCTTCCCCCCACCTGCCTAGCCCATC 2569	2569
ATCTATCTAACCGGTCCTTGATTTAATAACACTATAAAAGTTAAAAAAAA	2628

Fig. 16D

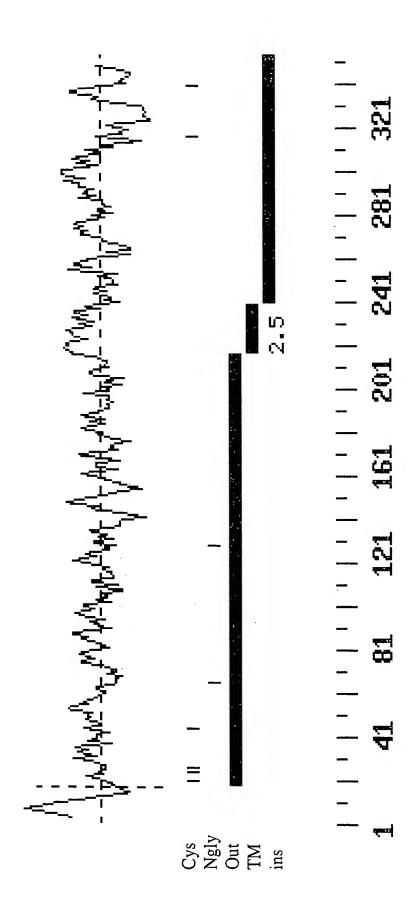


Fig. 16E

19 376 39 436 59 496 79 556 99 616 119 676 158 237 316 TACT H CAC Q CAA G GGT I ATC W TGG <u> ACCAGCGCCTAGAGGCCTCCTATAGTGATTCACCCCCAGGGGAGGAGGACCTGTTGGTGCACGTCGCCGAGGGAGCAA</u> STCACCTTGGCACCATATTGAAAACCTTGACCTCTTCTTCTTCTGGAGTTTAAATCTGCACCAGAAGAATGGCTTCACA F TTC AAC A GCT A GCT E GAG T ACG Z A GCC GTG C TGC I ATT IGG PCCT > 3 V GTT M ATG V GTC Y TAC YTAT L TTG V GTG K AAG CTG ၁ ညီ с ССG F TTT ${
m F}$ C TGC N AAC A GCC I ATC CTT CTC A GCC D GAC T ACC I ATT A GCC $^{\mathrm{F}}$ F TTT ССА I ATC AAC S TCT Z Q CAG CTT LCTA L TAT M ATG × M ATG I ATC TACT S TCC I ATC Р ССТ CTC I ATC D GAC V GTC ဗ္ဗဗ္ဗ F E GAG Y TAT K AAG N AAT K AAG SG P F TTT D GAC V GTC EAA I ATC CŢĞ I ATC V GTG CCC Q CAG CIT A GCT E GAG C TGC E GAA I ATT R CGG CAC G G G R AGG S AGC TACT H CAC r Grg I ATC A GCC V GTC СĊŢ I ATC Y TAC CIC H S AGT F TGG LCTG 3 M ATG F CIT Γ F S TCC TGT V GTC T ACC S AGT V GTC CAC

Fig. 17A

239 1036 139 736 159 796 179 856 199 916 219 976 259 1096 V GTG A GCT GGC L CTA LCTG L CTC K AAA H CAC E PCCT M ATG . CGG CIG V GTG Y FAC ი მემ I ATC Y EGAG ဂ ဂ် GGA CAA F ာ ညီ N AAC L W IGG ი მმმ N AAC A GCT GGC GGC I ATC Q CAG 9 9 9 F G GGG A GCT Y TAT 9 9 9 9 Q CAG CTC S AGC FTTC P CCT RCGT IATC Y TAT H CAC CHG CHG I ATC K AAA 9 9 9 9 F CTC R CGT E GAG L R CGC Y TAC F I ATT CTC STCA K AAG E GAG I ATC F EGAG W TGG A GCC ₩ TGG Q CAG F TTT Y TAT ၁ ၁၅ R 7 7 7 7 7 A GCC L N AAC I ATC T ACG H CHG CTC K AAG 7 2 3 5 7 7 Q CAG Y TAC PCCT Y TAC LCTC CGC I ATC A GCA V 3TG I ATC K AAG L S AGC Q CAA N AAC GGA IATC D GAC CTC r CFC W S AGC W TGG L R CGG L S GGT E CTC I ATA A GCC A GCC E K AAA R CGT N AAT R r CFC G G G Q CAG TACA N AAC ACC CTC Q CAG P CCG I ATC V STG L CTG V GTT F FTT A GCC CTC EGAG E E L L CTG F TTC L CTG R CGG P CCC CAA V GTC A GCA EGAG K AAG R CGT S ICT ာ ဂြိ

Fig. 17B

339 1336 359 1396 399 1516 419 1576 299 379 1456 439 636 CCC CCC V GTG V GTG L ITG E GAG G GGA D GAT Q CAG K AAG TACC E GAG N AAT E GAA R CGC S TCG LCTG Y TAC V GTG K AAG D GAC CTC A GCC R CGC E GAA ဗ္ဗဗ္ဗ T ACC A GCC Y TAT L H Γ CGG RCGT L I ATT V GTC Q CAG A GCC I ATT PCCA N AAC TACC 9 9 E GAG L CTG N AAT F TTC 75 CGC CTC T ACA LCTC L CTG PCCT GGT V GTG LCTG CGC CGC $\frac{L}{TTG}$ A GCC L CTC ည် TgC Q CAG A GCA ည် T အ TCC LCTT I ATT TACA F W TGG K AAG $^{\mathrm{F}}$ Q CAG I ATC V GTC V GTG $\overset{Y}{\text{TAC}}$ L H CAC CCT LCTG S TCA Q CAG V GTG TACC M ATG D GAC CIC IATC E GAG A GCT TACC r Tr H F TTC PCCT H CAC L L CTG Q CAG F M ATG LCTC CIC EGAG ၁ ၁၅ ATC V GTG D GAC Y TAC Q CAG CCC CCC L CTG N AAT S H CAT P CCG H CAC A GCC ACA E GAG M ATG 9 9 9 0 E GAA I ATC I ATC FTTTV GTC N AAC Y TAC A GCT VGTG FTTT EGAG H I ATT A GCT F K AAG F S TCC A GCT D GAC PCCC CAC S TCC F $_{\mathrm{TTG}}^{\mathrm{L}}$ R AGG R CGG CTC S AGC R CGC A GCC A GCC V GTG $^{\rm C}$ L I ATC TACC

Fig. 17C

459 1696 579 2056 599 2116 479 1756 539 1936 559 1996 499 519 876 F TTT 2 CAG S T ACA CTC PCCT L G P ၁ ညီ Q CAG HCAC L CTG F TTC S AGC CAA CTC TACC M ATG L CTG L r CŢĞ GGG GGC D GAC D GAT CHC R AGA P CCG A GCT LCTA G GGT P CCC GGA 9 9 E GAG S TCT STCA F PCCC S V GTG L TTG A GCC L CTA CAA L F S TCT E GAG G GGT W TGG T ACA A GCC E GAG PCCA S CTC V GTT Q CAG T ACA S AGC S TCT PCCT . С С С K AAG E GAG V GTC CCC SAGC CAA G GGC L CTG E GAG H CAT GGA A GCT R CGG A GCC R CGT L TTA РССА V GTG G GGT D GAT A GCT S TCC ည် ကြွင် STCT TACC EGAG Q CAG H CAT PCCA A GCA S AGCC S TCA $_{
m TTC}$ Q CAG A GCT Q CAG G GGA I ATC V GTC N AAC GGC CGC CAA \mathbf{W} S TCT G GGC E GAA D GAT Q CAG R CGA VGTT 9 9 9 0 R CGG T ACG A GCT A GCT F Y TAC Q CAG R AGG D GAT PCCT F TTT V GTA M ATG VGTG F TTC N AAC VGTT CTC VGTG HCAC D GAC Q CAG TACC Q CAG A GCC N AAT R AGG S TCA I ATA A GCC E GAG N AAT S A GCT I ATC A GCA K AAG I ATT F TTT E GAG A GCC E GAA I ATC ဗ္ဗဗ္ဗ

Fig. 17D

699 2416 639 2236 659 2296 679 2356 719 2476 739 619 217(75<u>9</u> R AGG E GAA Q CAG E GAA A GCT 9 9 9 H ССТ S TCA Q CAG GGA A GCC S TCT 9 999 S TCT H CAC K AAG D GAT L S AGT H CAT R AGG CGC CCC V GTG E GAG H CCT S TCA V GTG L V GTT G GGG L CTG CTC D GAT IATC GCC GCC R AGG A GCA $\overset{S}{\text{TCT}}$ Q CAG S AGC S AGT S TCT TACC CCC S TCG G G G G Q CAG H CAC E Q CAG T ACC Q CAG V GTG T ACA MATG R CGG L CTG CCC E GAG TACA ი მმმ Y TAT M ATG Q CAG R CGC A GCC P CCT GGC D GAT T ACC GGA H E GAA CIC R CGG P CCT A GCT S AGC A GCC E GAA WA GCC D GAT A GCA GGA H CAC W TGG H CAT V GTA 9 9 9 9 T ACA PCCT W TGG A GCT V GTG CIG H CAT E GAG G GGG R CGG I ATC R CGG S AGC S AGC R CGG GGA GGA CCC G GGC GGA G G G S AGC M ATG EGAG G GGG A GCA GGT CTT T ACA G GGG E GAG PCCT E GAA Y TAC A GCA PCCT CGC CCC S TCC T ACA D GAT E GAA $\overset{\text{C}}{\text{TGT}}$ LCTG A GCG S AGC S TCC A GCT R AGG CCT CCC K CGG Q CAG A GCC A GCA Q CAG A GCC Y TAT Q CAG S TCT G GGG T ACA Y TAT S AGC S AGC AGCC F F

 σ

90

E P V P E E G S E D E L P P Q V H K V st Gag ccc gtg ccc gaa gag ggc tcg gag gat gag cta ccc cct cag gtg cac aag gta tag

2972 31051 3130 3209 3288 3367 35446 3683 2893 3604 STICGCTIGCICCCGIICCGIITCGGCTITIGCTITIGCGTIAGGGTGAAGACCCTAGCGTCCAGCTCCCCTCAACGCTAT TGGGCCCCCAGGAGACTGAGGTCTTCCTGGGCCCTCATTGCTGCTTATCGTACCCCCCATCACCTGCACATGGGACAGA ATGAAGGGCGATGCCTCGCCCGAGGCTTTGGGCTGCTGCACTGCATGCTGGGACTGCTCCTACTCTCTGTCCCACCCCT CACCCAGCTGTGGTCCGGCTTTGGGAGAGTGGTGAATTGCGCTGCCCGAACTCGGAGCGGAGCAGGGTAGGGACCGTGT CTCCTCTGAGTGTTCCCTGGCCCCCACGTGTGTGTGTTTTGTGTGTCTGTGCCTGGCCAAGGGAGGTGCCAACACTGGGC TTGCCACAGCCCCAGGAGAGGAATTTGGGGGCCTAGGAACCGAGGGCACACGGGACTCTAGCCTCATCCCCAGGACCCC TTGGCTCAGAGTGTGGTGCTAGAAACTGGTCCCCAGCCCAGCCCCAGTACTGCCACCTTTACACCTACCCCTGCAAGTC CCCAGAGGGCTGCCCACGATAGAAGCTGCCAAGCAGGGAGAACCTGTGCCAACTGTGGAGTGGGGAGGTTGGGCCTGGA CCCTCAACCCCTGCAACCTTCCCTAGCCCCCTCAATAGATGAGCAGGTCAGGCTGTGGCCCTTACCTCACCGCAGTTC ATTTTGACACTAAAAAGAAGGTTTCTAAATTGTAGGAGCAGGATGGAAATACTTTGCTGCCCTTGCCATCTTTAGGA CCGGGCTGGAGGGTGACCTTGGCTGTGTACGTCCCAGCAAAAGAGCTCTGGCCCGCATCTCGCTGTGCCCTTGAAGGGGG SCGGCCGC

Fig. 17F

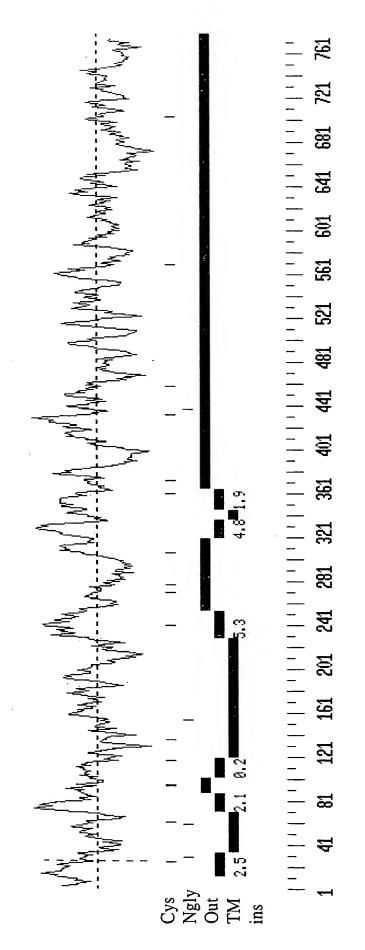


Fig. 17G

79	9	29	49 266	69 326	8 3 8 6	109 446	129 506
TCG		V GTC	R CGA	E GAG	Y TAT	K AAG	N AAT
099D	Q CAG	H CAC	S TCT	F TTT	D GAC	V GTC	E GAA
CACC	Y . TAC	V GTG	T TTC	I ATC	V GTG	P CCC	Q CAG
GAAT	E GAA	L TTG	FTC	E GAG	C TGC	E GAA	I ATT
TCTG	T ACT	L CTG	L CTC	9 9	S AGC	T ACT	R AGG
AGCC	D GAC	D GAC	D GAC	I ATC	V GTC	P CCT	A GCC
9525	F TTT	E GAG	L CTT	L CTC	L CTG	H CAC	S AGT
9009	Q CAG	E GAG	N AAC	M ATG	F	L CTT	C TGT
CGGA	A GCG	ტ ტტტ	E GAA	C TGT	T ACC	S AGT	V GTC
CGAG	MATG	P CCA	I ATT	T ACA	T ACT	H CAC	Q CAA
GAGC	GGTG	CCC	H CAT	F TTC	F TTC	N AAC	A GCT
AGCC	CGGT	S TCA	H CAC	9 9	A GCC	V GTG	PCCT
OCCG	99995	D GAT	W TGG	N AAT	V GTT	MATG	L TTG
CCGA	ACAG	S AGT	P W CCT TGG	K N AAG AAT	V GTG	K AAG	A F L GCC TTT TTG
יכפכפ	GTGG	$_{\mathtt{TAT}}^{\mathtt{Y}}$	S TCA	Q CAG	F TTT	N AAC	A GCC
GGGI	CAAG	S Y TCC TAT	K AAG	H CAC	CHC	A GCC	D GAC
CCGC	TGGI	A GCC	S AGC	L CTG	F TTC	F TTT	P
AGCG	GAGG	E GAG	ტ ტტტ	N AAT	Q CAG	L CTA	$_{ m CTG}$
CCCGGCCTAGCGCCGCGGGTCGCGCGCGAGCCGAGCCGA	CTGTTCCTGAGGTGGTCAAGGTGGACAGGGGGGGGGGTGGTG	L CTA	E GAG	Y TAT	M ATG	I ATC	T ACT
9000	CTGI	R CGC	A GCC	V GTT	CTC	D GAC	V GTC

Fig. 17H

149 566	169 626	189 686	209	229	249 866	269 926	28 98 86
K AAG	R CGC	Q CAG	Y TAC	PCCT	Y TAC	LCTC	R
I	L	V	I	L	K	S	N
ATC	CTG	GTG	ATC	CTG	AAG	AGC	AAC
CTT	A GCT	I ATC	D GAC	CTC	CTC	W TGG	S AGC
R	H	R	L	S	G	E	L
CGG	CAC	CGG	CTG	TCC	GGT	GAA	CTC
H	L	A	E	K	R	N	R
CAC	CTG	GCC	GAA	AAA	CGT	AAT	CGC
I	Y	Q	T	N	T	CTC	Q
ATC	TAC	CAG	ACA	AAC	ACC		CAG
W	F	V	L	V	F	F	A
TGG	TTC	GTG	CTG	GTT	TTC	TTT	GCC
TTC	S	E	E	L	F	L	L
TTC	TCC	GAA	GAG	CTG		CTG	CTG
V	H	o	R	A	V	S	E
GTC	CAC	Caa	CGT	GCA	GTC	TCT	GAG
G	I	W	K	V	A	ი	L
GGT	ATC	TGG	AAA	GTG	GCT	ე	CTA
A	E	T	H	M	E	P	R
GCT	GAG	ACG	CAC	ATG	GAA	CCT	CGG
I ATT	W TGG	S F G C	I ATC	Υ TAC	ტ ტტტ	G GGA	Q CAA
V	YTAC	YTAT	C TGC	N AAC	CIC	\overline{W}	ი გე
L	C	P	I	Q	ტ	F	ი
CTG	TGC		ATC	CAG	ტტ	TTC	ი
I	C	L	Q	F	P	CTC	R
ATC	TGC	CTT	CAG	TTC	CCT		CGT
T	I	A	H	R	L	I	K
ACC	ATT	GCC	CAC	CGT	CTG	ATC	AAA
I ATC	N AAC	S TCT	E GAG	CTC	R CGC	L CTG	$^{ m Y}$
L	Y	MATG	K	I	F	E	E
CTT	TAT		AAG	ATC	TTC	GAG	GAG
S	I	P	Q	R	R	F	A
	ATC	CCT	CAG	CGC	CGC	TTT	GCC
9	F	I	T	H	L	N	K
9		ATC	ACG	CAC	CTG	AAC	AAG

Fig. 171

309	329	349	369	389	409	429	449
1046		1166	1226	1286	1346	1406	1466
I	A	E	Γ	A	T	H	P
ATC	GCA	GAG		GCT	ACC	CAC	CCT
Q	G	H	F	L	L	Q	M
CAA	GGA	CAC	TTC	CTG	CTG	CAG	ATG
W	L CTG	E GAG	C TGC	I ATC	V GTG	D GAC	YTAC
I	A	L	N	S	H	P	H
ATA	GCC	CTG	AAT	TCC	CAT		CAC
CTC	ტ	E	M	9	E	I	I
	ტტ	GAG	ATG	990	GAA	ATC	ATC
I ATC	P	N AAC	YTAC	A GCT	V GTG	F	H CAC
L	E GAG	F TTC	K AAG	F	A GCT	S TCC	A GCT
P. CCC	R CGG	H CAC	S TCC	F	L TTG	R AGG	L
C	K	R	A	A	V	C	I
TGC	AAG	CGC	GCC	GCC	GTG	TGC	ATC
CIG	L CTG	L CTC	PCCC	G GGA	D GAT	V GTG	VGTG
L	V	Y	K	N	E	T	R
	GTG	TAC	AAG	AAT	GAA	ACC	GGC
F	E GAG	S F G C	$^{ m Y}$	K AAG	D GAC	V GTG	Γ
N	A	R	დ	A	Y	T	L
AAC	GCT	CGC	ე	GCC	TAT	ACC	CTG
A	$_{\mathtt{TAT}}^{\mathtt{Y}}$	ი	R	L	I	V	Q
GCT		ი	CGT	CTG	ATT	GTC	CAG
I	S	Y	N	CIG	T	ი	E
ATC	AGC	TAT	AAC		ACC	მიმ	GAG
ი ენ	F	L CTC	L	T ACA	L CTC	L CTG	P CCT
I	F	s	R	L	A	L	C
ATT	TTC	TCA	CGC	TTG	GCC	CTC	TGC
W	A	W	S	CTT	I	T	F
TGG	GCC	TGG	TCC		ATT	ACA	TTC
CTG	Y TAT	ე ტ ე	Q CAG	ъ ССТ	CTT	V GTC	V GTG
I ATC	CTC	R CGC	CIG	S TCA	V GTG	T ACC	MATG

Fig. 17.

469	489	509	529	549	569	589	609
1526	1586	1646		1766	1826	1886	1946
F TTC	I ATC	T ACC	H CAT	E	PCCA	A GCA	Q CAG
L	L	F TTC	Q CAG	A GCT	Q CAG	G GGA	I ATC
Q CAG	GCC CCC	N AAC	GG 75	CAA	W TGG	D GAT	S TCT
A	T	R	V	Q	9	R	T
GCC	ACA	CGA	GTT	CAG	9	CGG	ACG
F	V	F	D	Y	P	Q	F
TTT	GTC	TTC	GAT	TAC	CCT	CAG	TTT
E	I	F	M	V	N	V	L
GAG	ATT		ATG	GTG	AAC	GTT	CTC
D	P	D	Q	S	T	Q	A
GAC	CCC	GAC	CAG	TCA	ACC	CAG	GCC
R	S	I	A	A	I	E	N
CGG	AGC	ATA	GCT	GCC	ATC	GAG	AAT
T	L	I	F	E	A	K	E
ACC	CTG	ATT	TTT	GAG	GCC	AAG	GAA
Q	Γ	E	S	T	F	L	P
CAG		GAG	TCC	ACA	TTT	CTC	CCT
ა შე	E GAG	L CTG	C TGC	Q CAG	H CAC	F	CTC
R	E	A	T		M	9	L
CGC	GAA	GCC	ACC	999	ATG	99C	CTG
H	L	R	D	A	L	L	G
CAC		CGG	GAT	GCT	CTC	CTA	GGT
A	I	P	G	S	S	F	ტ
GCC	ATT	CCA	GGA	TCT	TCA	TTC	ტტტ
N	T	CGC	V	L	L	A	Q
AAT	TTC		GTG	CTA	TTG	GCC	CAA
G	V	L	G	W	E	H	A
GGT	GTG	CTG	GGT	TGG	GAG	ACA	GCC
Q	A	C	V	Q	T	S	L
CAG	GCA	TGC	GTT	CAG	ACA	AGC	CTC
W	K	F	V	CC PD	K	E	S
TGG	AAG	TTC	GTC		AAG	GAG	AGC
H	$^{ m Y}$	I	E	H	G	R	A
CAC		ATC	GAG	CAT	GGA	CGT	GCT
D	Q	CTC	V	G	D	P	A
GAC	CAG		GTG	GGT	GAT	CCA	GCT

Fig. 17K

749 649 2066 669 2126 689 2186 709 2246 729 S MATG Q CAG Y TAT A GCC 9 9 9 CGC PCCT S TCA TACC GGA L H R CGG A GCT PCCT G GGC S AGC E GAA A GCC W TGG A GCC GGA D GAT A GCT H CAC W TGG V GTA T ACA H CAT 9 9 9 0 PCCT V GTA A GCT V GTG Γ H EGAG R CGG I ATC V GTG G G G G S AGC S AGC R G G GGA CCC R CGG N AAT S AGC M ATG E GAG G GGG R AGG A GCA G GGT G GGG A GCA S EGAG PCCT E A GCA Y TAC I ATC S TCC GGC TACA EGAA D GAT C TGT R CGC CTT R AGG Q CAG S AGC S TCC A GCT PCCT PCCC S AGC Q CAG L CTG A GCC A GCA Q CAG A GCC Y TAT LCTG D GAC TACA Y TAT A GCC S AGC S AGC F PCCC R AGA R AGG E GAA Q CAG E GAA A GCT 9 96 0 E GAG A GCC Q CAG P CCC S TCA G G G G GGA S TCT S TCT K AAG L D GAT L S AGT R H CAT E GAG E GAG PCCA V GTG V GTG H L й s TCT G GGG D GAT PCCT L L I ATC A 3CC . Q CAA Q CAG GGC S TCT SAGC S AGT TACC S R CGG GGC Q CÀG H E GAG TACC L TTA Q CAG C TACA L M ATG R CGG CCC CCC EGAG

Fig. 171

789	809 A 2546	817 2570	2649 2728 2807	2886	1 2965			320	1 3281	3360	3 3439			7170
D GA7	L G CTA		ACGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	AGTO	TGGZ	GTT	TTC	CTA	'AGGZ	CAG	36660	CCCI	GTG	K
E GAA	E GAG		TGGG CACT GGAC	TGCA	395	CGCA	CCTG	AACG	TTTT	GGGZ	GAAG	CCAC	GACC	*
A GCA	D GAT		SCCA CCAA	מממ	FLTG	CACC	rgcT	CTC	CATC	ACAT	CCCT	rgTC	ragg	K K
W TGG	E GAG		SCCT(CTA(3GAG(ACCT(GCT.	TCC)JBT!	TGC.	'GTG	CTC	\GGG7	K
G GGG	S TCG		TCTG GGAG	ACAC	TGGG	CTTZ	TGCI	CAGC	CCCI	יכאכי	רטפטי	TACT	AGC?	F F
GGA	P E P V P E E G S E D E CCT GAG CCC GTG CCC GAA GAG GGC TCG GAG GAT GAG		CCCG	CTTT	GGAG	GGCC	TGTG	CGTC	GCTG	CCAT	ATCT	CTCC	BCGG	F F
H F S R L P L G G W A E D CAT TTC TCT CGG CTG CCT CTT GGA GGG TGG GCA GAA GAT	E GAG		CCAT	CCAC	CTGI	CTGI	CCTG	CTAG	CTTI	מכככ	CCGC	ACTG	CGGA	k k
CCT	E GAA		CCTG	ACTG	CCAP	CAGG	CTGG	GACC	AATA	CGTP	TGGC	TGGG	AACT	٠ ١
CIG	P		CTGC	CAGI	TGTG	AGGI	ATCA	TGA	TGGA	TTAT	GCTC	ATGC	SCCG	f
CGG	V GTG		ACCG TGTG	CCCC	AACC	GAGC	GCAC	AGGG	AGGA	CTGC	AAGA	CTGC	GCTG	•
S TCT	P CCC		GGCC	CCCA	GGAG	AGAT	TCTT	CGTT	GAGC	ATTG	GCAA	TGCA	TTGC	
F	E GAG		TGGA	CCAG	GCAG	CAAT	CGCT	TTTG	GTAG	CCTC	CCCA	CTGC	TGAA	(
H CAT	P CCT	* TAG	AGGA GTGT	GTCC	CCAA	CCCT	TCTC	TTGC	AATT	geec	ACGT	TGGG	GTGG	[[
		V GTA	GCCC ACGT	ACTG	GCTG	AGCC	CCTC	GCTT	TCTA	TCCT	GTGT	GCTT	GAGA	(
P	R AGG	K AAG	TGTG CCCC	AGAA	AGAA	CCCT	CTCA	TTCG	GGTT	GTCT	GGCT	CGAG	TTGG	1
V GTT	S TCA	H CAC	TTCC	TGCT	CGAT	CCTT	CCGG	TCCG	AGAA	TGAG	CCTT	CGCC	GGCT	1
R AGG	A GCA	V GTG	AGGG TTCC	GTGG	CCCA	GCAA	GCAG	CCGT	AAAA	AGAC	GTGA	GCCT	GTCC	1
P CCC	s TCG	2 SAG	GAGC	SAGT	GCTG	CCCT	TGCT	CTC	ACTA	CAGG	SAGG	CGAT	TGTG	.
V GTG	Q CAG	P CCT	GGCT. TCTG.	CTCA	GAGG	CAAC	CCAG	3CTT(TGAC,		3CTG	AGGG	CAGC	
T V P R V P S ACA GTG CCC AGG GTT CCC TCT	G Q S A S R H GGG CAG TCG GCA TCA AGG CAC	P P Q V H K V CCC CCT CAG GTG CAC AAG GTA	ACAAGGCTGAGCGTTCCTGTGGCCCCAGGATGGAGGCCACCGCTGCCCTGCCATCCCGTTTGCTGCCTAGGGACGG CTCCTCTGAGTGTTCCCTGGCCCCACGTGTGTGTGTTTTGTGTGTCTGTGCCTGGCCAAGGGAGGTGCCTAGGCAACACACAC	TIGGCTCAGAGTGTGGTGCTAGAAACTGGTCCCCAGCCCCAGTCCCAGTACTGCCACCTTTACACCTACCCTGCAAGTC	CCCAGAGGGCTGCCCACGATAGAAGCTGCCAAGCAGGGAGAACCTGTGCCAACTGTGGAGTGGGGAGGTTGGGCCTGGA	CCCTCAACCCCTGCAACCTTCCCTAGCCCCCCTCAATAGATGAGCAGGTCAGGCTGTGGCCCTTACCTTCACCTCACCAGTTC	TCGCCCAGTGCTGCAGCCGGCTCACCTCTCTCCGCTTCTTGCACATCACTGGCCTGTGTGTG	GTTCGCTTGCTCCCGTTCCGTTTCGGCTTTTGCGTTAGGGTGAAGACCCTAGCGTCCAGCTCCACTCCAACGCTAT	ATTITIGACACTAAAAAAAAGAAGGTTTCTAAATTGTAGGAGCAGGATGGAAATACTTTGCTGCCCTTGCCATCTTTAGGA	TGGGCCCCCAGGAGACTGAGGTCTTCCTGGGCCCTCATTGCTGCTTATCGTACCCCCCATCACCTGCACATGGGACAGA	CCGGGCTGGAGGGTGACCTTGGCTGTGTACGTCCCAGCAAAAAAGAGCTCTGGCCCGCATCTCGCTGTGCCCTGAAGGGGG	ATGAAGGGCGATGCCTCGCCCGAGGCTTTGGGCTGCTGCACTGCTGGGACTGCTGCTACTCTTCTGTCCCACCCCT	CACCCAGCTGTGGTCCGGCTTTGGGAGAGTGGTGAATTGCGCTGCCCGAACTCGGAGCGGAGCAGGGTAGGGACCGTGT	k

79 158 <u> AGCGGCGTGGGGAAGACCTAGGGGGGGTGGGGGGAAGCAGACAGGAGAACACTCGAAATCAAGCGCTTTACAGATTA</u>

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 $\mathbf{\Xi}$

229 2 8 8 2 8 9 48 349 68 409 88 469 108 529 128 589 R CGG TTA E L CTG I ATT GTC I ATA > T ACT YTAC Q CAG GGT s TCT CCT T ACA щ Γ M ATG G GGT W TGG VGTG D GAT GGA ტ GTG \vec{W} CHC M ATG AAT F GGA Z G $_{\mathtt{TAT}}^{\mathtt{Y}}$ TCA CAA I ATA V GTG TAC L CTA × വ ATG A GCT I ATC F TTT \mathbf{F} L TTA E GAA AAC A GCC A GCC GGT G GGT PCCA CC PD ATG E K AAG TACT Q CAG A GCT A GCA N AAT R AGG TTTTATTTGTATAGAGAACACGTAGCGACTCCGAAGATCAGCCCCA Y TAT R CGA D GAC K AAA E GAG CTG L CIT C TGT S AGC N AAC A GCT E A GCT L CTA V GTT F TTC G GGT V GTG S TCT F TTT S TCA Q CAG FTTT K AAG F TTC 2 CAG F TTT TTT K AAG CIG A GCA I ATA K AAG A GCA S AGT E GAA Y TAT F L R CGA $_{
m TTC}$ S TCT F TTC A GCT K AAA GGC GTC E GAA N AAT K AAA TGG K AAA S $_{\mathtt{TAT}}^{\mathtt{Y}}$ K AAG ATG A GCA T ACC TTC Σ щ E GAA W TGG CIT M ATG L CTA K AAA ACC. N AAC H CAC S AGC CAA L TTG

18A

148 649	168 709	188 769	208 829	2 2 8 8 8 9 9 9	248 949	266 1003
V GTG	T ACT	F TTC	M ATG	H CAC	H CAT	
TACT	M ATG	G GGT	$_{ m CTG}$	S TCT	$^{\mathrm{T}}_{\mathrm{GC}}$	
I ATC	F TTC	A GCA	M ATG	H CAC	마 TTC	* TAG
H CAC	\overline{W}	A GCG	Q CAG	$_{ m TGT}^{ m C}$	CIC	E GAA
H CAC	G GGT	R CGG	TACT	Q CAG	∨ GTG	A GCT
Y TAT	G GGA	Γ	I ATC	D GAC	L	K AAA
W	ი ი ი	A GCC	Q CAG	H CAT	Y TAC	T ACG
H CAC	A GCC	$_{\mathtt{TAT}}^{\mathrm{Y}}$	s TCC	Q CAG	S AGC	T ACA
L CTG	V GTT	$^{ m Y}_{ m TAC}$	$_{ m TTG}$	M ATG	CIC	K AAA
F	M ATG	S TCT	TACC	W TGG	Y TAC	R AGG
I ATC	D GAC	$^{ m Y}_{ m TAC}$	I ATC	C TGC	M ATG	M ATG
L CTG	K AAA	M ATG	${ m F}$	F	CIC	K AAA
K AAG	Y TAC	V GTG	M ATG	V GTC	S TCA	9 9 9
Q CAG	S TCC	A GCC	A GCC	CIG	S TCC	I ATC
K AAG	Y TAC	H CAC	${ m F}$	$^{ m Y}_{ m TAC}$	W TGG	Y TAC
R AGG	W TGG	V GTG	K AAG	N AAC	F	A GCC
L CTĞ	S. TCT	9 9 0	R CGG	V GTT	I ATC	E GAG
I ATT	Y TAC	Y TAT	S TCC	V GTG	N AAC	F TTT
I ATT	L CTG	AAC	V GTC	C TGT	Q CAG	F TTC
F	CIC	M ATG	R CGA	9 9 0	F TTT	F

1082 1161

Fig. 18B

1398 1477 1556 1635 1714 1793 1872 1951 2030 2188 2267 2346 2425 2583 2662 2741 2820 2899 2978 2109 2504 AACAGTGCAGCCCAGGTCCCATGGGGGCAGCTCCATCCCAGAGCATTTCTGATAGTTGAACTGTAATTTCTACTCTTAA GACAACAAAGGGCCCCCATACACTTATCCCTCAAATTTTAAGTGATATGAAATACTTGTCATGTCTTTGGCCAAATCAG AAGATATTCATCCTGCTTCAAGTCAGCTTCAGAAATGTTTTAAAAGGGACTTTAGCTCTGGAACTCAAAATCAATTTAT TAAGAGCCATATTCTTTAAAAAAAAAAAAGCTGGATAATATTCTCTGTAATATTTCAGTCCTTTACAAGCCAAATACATG TGTCAATGTTTCTAGTATTTCAAAGAAGCAATTATGTAAAGTTGTTCAATGTGACATAATAGTATTATAATTGGTTAAG CCCAGTAAGTTTATGATCCTTTTAGGGTGAGGACTCACTGAGTGCACCTCCATCTCCAAGCACTGCTGCTGGAAGACCC ACAAAGGCTATTAACACATAGGAAAAATGTATTTACTAAGTGTCACATTTCTCTAAGATGAAAGATTTTTTACTCTAGA AACTGTGCGAGCACAACACACACAATCCTTTCTAACTTTATGGACACTAAAACTGGAGCCAATAGAAAAGACAAAAATGA <u>AAGAGACACAGGGTGTATATCTAGAACGATAATGCTTTTTGCAGAAACTAAAGCCTTTTTTAAGAAATGCCAGCTGCTGTA</u> CTGCATAGCCTCAGGCTAGTGAGTTTGCCAAAACCAAAGGGGGTGAATACTTCCCCAAGATTCTTCCTGGGAGGATGGA STGAGATATGAAGCATTATCCTTTTGTTCAGTTGCCCCGGGCTTTTGAACAGAAGAGTAAATACAGAATTGAAAAAGAT aaacactcaaccaaacaatgtgaaaacgggttctgtagtatttggaaaaggcccggcccaggaccactgtgagctgga TGACTTCACACACACTCATAACTTTCCAAATGAAACCCCACAGTATAGCGCATATTTTCGATATTTTGTGAATTCCAA <u> AAGGAAATCACAGGGCTGTTCGAAATATTGGGGGAACACTGTGTTTTCTGCATCATCTGCATTTGCTCCCCAAGCAATGT</u> <u> AGAGGTGTTTAAAGGGCCCTCTGCTGGCTGAGTGGCAATACTACAACAAACTTCAAGGCAAGTTTGGCTGAAAACAGTT</u> TAGCTTAATGATTAGGCAAACTAGATGAAAAGATTAGGGGCTTCCACACTGCATAGATTACACGCACATAGCCACGCACACGCACAT ACACACACAGACACACAGATGTGGGGTACACTGAACTTCAAAGCCCAAATGAATAGAAACACACATTTTCTGGCTAGCAGA <u> TATTATTTTAGCTTTAATTGTGCTGTCGTTCATGAAACAGAGCTGCTCTGCTTTTTCTGTCAGAGATGGCAAGGGCTTTT</u>

Fig. 180

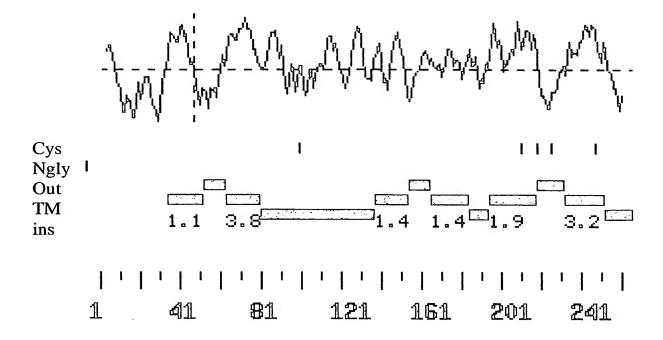


Fig. 18D

59 179 119 359 159 479 39 79 299 139 419 Q CAG S F PTC L CTG GGC R CGG I ATT W TGG I ATT Y TAC Y TAT S TCC V GTC F F I ATC L CTG N AAC V GTC C. TGT H H K AAA FTTC CHC M ATG 9 96C STCC ာ ဦင် R CGA s AGC I ATA V GTG TACT FTTC M ATG Y TAC F V GTC TACG TACT MATG L CTG C TGC G GGT r GFC PCCT D GAC A GCG IATC MATG Q CAG F TTC V GTG GGA G GGT H WTGG A GCT Q CAG D GAC CTT N AAT H CAC R CGG TACT GGT CTA N AAC Y Y TAC E Y TAC G GGT $_{\mathrm{TTG}}$ I ATC D GAC SAGC $^{
m F}$ CCC \overline{W} G GGG A GCC Q CAG H CAT CHC CHC S AGT A GCA H A GCT YTAC S TCC Q CAG Y Q CAG K AAA L CTG V GTC Y TAC L TTG M ATG M ATG D GAC S AGC M ATG S TCT T ACC CHC F TTC W TGG C TGT CTC I ATC DGAC Y TAC I ATC N AAC S TCG V GTT VGTG L M ATG F K AAA F နှင့် ၁၁၃ S TCA \mathbf{F} TTT Y TAC V GTC M ATG K AAA STC W TGG Q CAG Q CAG S TCC A GCA A GCC A GCC L F PTC K AAG YTAT K AAA Y TAC H CAT F TTT I ATC Y TAC L CTG A GCT R AGG W TGG K AAG N AAC V GTG N AAC

Fig. 18E

527	909	685	764	843	922	1001	1080	1159	1238	1317	1396	1475	1554	1633	1712	1791	1870	
FERNAY OF SAN CONTRACTOR SAN CONTRACT SAN TO SAN CONTRACT	CAGGGTCATCACAAAAAATCGACAAAAGAAAAATGGCACAAGGAATCC		GTTGTAAGTTTATGATCCTTTCTGGGTGAGGACTCGCTGAGTGCAACTCTTATCTCAAAGCACGGCTGCTGAGGGGACC 764						Н	٠.	` '	~		~				
H E	יין פאלי	AACA	CCTI	TCAA	ACTG	AAAG	ATCT	TTTG	ACTG	AGTA	IGCT	GGGA	TGAA	IGTT	ICAA	CAGI	IGAC	
۲ ا د		TAAZ	GAT	CTG	AAACZ	GAT2	GCAZ	GCT	GCA.	GACZ	TTC	AAAC	AGC	ເວລາ	CTT	CAGO	PAAC	
ت ک ک	T AU L	CAGO	TTAT	TGGC	GCAA	TAAG	ACAC	CAAT	TACT	ACAG	TTAT	ACTG	CTGG	CCCI	GTGA	CCTI	AAAT	
EI Š	בייייייייייייייייייייייייייייייייייייי	SGTG.	AAGT	CCTC	GCCA	TCTC	ACAC	ACAG	TTTT	AAAC	ACTG	CAGA	GTCC	TOOS:	TTTT	GCTC	GTTG	111
EH EH	ないよびよ	CATAI	GTTGI	CCTTC	GGACG	GTTTI	CACAC	CTGGG	AATTA	CAACC	TGACA	AAATG	CCATC	TGTTC	TATAT	CATTI	AGTAG	
		_	_	_	_	_	_	_	•	_	_	•	_					

TATITGACCAAATCAGAAGAGAGAGAGCCTCTATGCTTCAAGTAAGCGTCATAAATTTTTTAAGTGACTTTCACTTG

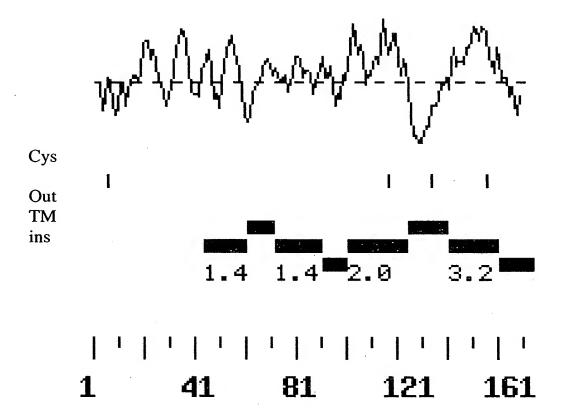


Fig. 18G

10 20 30 40 50 70 human MNMSVLTLQEYEFEKQFNENEAIQWMQENWKKSFLFSALYAAFIFGGRHLMNKRAKFELRKPLVLWSLTL		80 100 110 120 140 AVFSIFGALRTGAYMVYILMTKGLKQSVCDQGFYNGPVSKFWAYAFVLSKAPELGDTIFIILRKQKLIFL :::::::::::::::::::::::::::::::::::	150 160 200 210 human HWYHHITVLLYSWYSYKDMVAGGGWFMTMNYGVHAVMYSYYALRAAGFRVSRKFAMFITLSQITQMLMGC ::::::::::::::::::::::::::::::::::::	220 230 240 250 260 human VVNYLVFCWMQHDQCHSHFQNIFWSSLMYLSYLVLFCHFFFEAYIGKMRKTTKAE ::::::::::::::::::::::::::::::::::::
human 1	murine -	human 2 murine -	human F murine F	human V

Fig. 18H

human	10 human ATGAACATGTCAGTG	20 30 40 50 50 70 70 31	30 AGAATATGAAT	40 TCGAAAAGCA	50 GTTCAACGA	60 GAATGAAGCCA	70 TCC
murine			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		; 	 	
human	80 90 100 110 120 140 human AATGGATGCAGGAAAACTGGAAGAAATCTTTCCTGTTTTTTCTGCTCTTTTTTTT	90 \actggaagaaa	100 FCTTTCCTGTT	110 TTCTGCTCTG	120 TATGCTGCC	130 TTTATATTCGG	140 TGG
murine							! ! !
human	150 160 170 180 190 200 210 human TCGGCACCTAATGAATAAACGAGCAAAGTTTGAACTGAGGAAGCCATTAGTGCTCTGGTCTCTGACCCTT	160 NTAAACGAGCAAA	170 AGTTTGAACTG	180 AGGAAGCCAT	190 TAGTGCTCT	200 GGTCTCTGACC	210 CTT
murine							
human	220 human GCAGTCTTCAGTATA	230 240 250 260 270 280 280 270 280 ATTCGGTGCTCTTCGAACTGGTGCTTATATGGTGTACATTTTGATGACCAAAGGCC	240 rcgaactggtg	250 CTTATATGGT	260 GTACATTTT	270 GATGACCAAAG	280 GCC
murine	; ; ; ; ; ;		: 		 		. O

Fig. 18I

350 FTGT :::: FTGT	420 CCTG :::: CCTG	490 GGAG :::: GGTG 210	560 CAGG : . : : CGGG
SCAT)TTJ:	7666 6666 76666	,
340 CTTATC :::::: CTTATC 60	410 GCTGA1 .::::: ACTGA1 30	480 GTTGCC :: :: GTCGCT 00	550 TGCGGC ::::: TGCGGC
34 366CT ::::: 366CT 60	41 3AAGC :::: 3AAAC 130	48 ATGGT' ATGGT' 200	55 CCTTG ::::: CCTTG
PTCT(:::: PTCT(AGCA(: . : : AACA(AGACZ :::: AGACZ	PATG(:::: PACG(
330 CAAA' :::: CAAA' 50	400 !AGGAJ :::: !AGGAJ 120	470 ACAA :::: ACAA 190	540 TTAC: :::: TTAC: 260
TCAG :::: TCAG	370 380 400 400 420 CCCGAACTAGGAGATACAATATTCATTATTCTGAGGAAGCAGAAGCTGATCTTCCT :::::::::::::::::::::::::::::::		ACTC:
320 ACCTG ::::: ACCTG	390 ATTAT ::::: ATCAT	460 GGTAC ::::: GGTAC 80	530 GATGT :::: CATGT 50
3 LTGGA :::: LTGGA	39, TTCAT' ::::: TTCAT	46' CTTGG' : ::: CCTGG'	53. ::::::::::::::::::::::::::::::::::::
) ACAA: :::: ACAA:) AAATA .::: GATA) TACT::::	ACGC::::
310 FTTTT ::::: FTTTT	380 3ATAC :: :: 3ACAC	450 CCTG' :::::	520 3GTGCZ ::::: 3GTGCZ 240
AGGG:	AGGAC ::::	37GC1 :::::	4TGGC
300 GACC :::: GACC	370 AACT/ :::: AACT/ 90	440 TCACT(::::: TCACT(510 GAACTZ ::::: GAACTZ 230
TTGT.		ACAT(: ACAT(TATG; :::: TATG; 2
O CAGT :::: CAGT	0 AGCA :::: AGCA	0 CAC CAC CAC	0 TGAC TGAC
290 CAGTC ::::: CAGTC	360 GCAAAC ::::: GCAAAC 80	430 GTATCZ ::::: GTACCZ	500 TTCAT(::::: TTCAT(220
350 340 350 350 350 350 350 350 340 350 350 340 350 340 350 340 350 340 350 340 350 340 350 340 350 340 350 350 350 350 350 350 350 350 350 35	360 400 420 human GCTAAGCAACCCGAACTAGGAGATATTCATTATTCTGAGGAAGCAGAAGCTGATCTTCCTG :::::::::::::::::::::::::::::::	430 450 460 470 490 490 490 490 490 490 490 human CACTGGTACTCTTGGTACTCCTACAAGACATGGTTGCCGGGGGAG :::::::::::::::::::::::::::::	500 510 520 530 540 550 560 GTTGGTTCATGACTATGACTATGGCGTGCACGCCGTGATGTACTCTTACTATGCCTTGCGGGCGG
	lan G	lan C : ne C	
human murine	human murine	human murine	human murine

Fig. 18J

630 TGT ::: TGT 50	C :	₩ ₩ 0 H H	
63 5GCTG 5GCTG	690 CAGAAC: :::::: CAGAAC: 420	760 CCTACA' :::::: CCTACA'	
SATG(::::	6. PTTC2	76 46600 1 : : :	
620 LTGCTC ::::: LTGCTC	80 TCTCACT::::::::::::::::::::::::::::::::	:TTTG7 :::::: TTTG2 480	
CAGA:	680 ACTCT ::::	750 717 717 717 717 717 717 717	
570 580 600 610 620 630 TTTCCGAGTCTCCCGGAAGTTTGCCATGTTCATCACCTTGTCCCAGATCACTCAGATGCTGATGGGCTGT :::::::::::::::::::::::::::::::	640 650 650 690 GTGGTTAACTACCTGGTCTTCTGCTGGATGCAGCATGACCAGTGTCACTCTCACTTTCAGAACA ::::::::::::::::::::::::::::::::	700 720 730 740 750 760 human TCTTCTGGTCCTCATGTACCTCTTGTGCTCTTCTTCTTTTTGAGGCCTACAT ::::::::::::::::::::::::::::::::	
610 AGATCZ :::::: AGATCZ	70 - CAGTC - : : : : CAGTC 400	10 ::::: :GCCA: 470	
. : : : . : : : : : : : : : : : : : : :	670 CZ	740 TTCTG(:::::	
600 CTTG1 ::::: CTTG1 320	ATGAC ::::: ATGACAP 390	TGCTC::::	
::::: ::::::::::::::::::::::::::::::::	CATO ::::	730 TTGT ::::	
)0 TTCAT	00 19CAG 1:	TACC	 .ag
590 310	660 GGATG(::::: GGATG(380	10 CAGC : : : : CAGC 450	0 GCTG :::: GCTG 520
776CC	TGCT	720 ACCTC:::	790 GAAAG(:::::
580 !AAGTT !:::: !AAGTT	650 370) CATGT ::::: CATGT 440	ACAAC .::: GCCAC 510
	: : 3	710 ACTC .::: GCTC	780 3AAAA 3AAAG
OCTCC	0 TACC :::: TACC	CCTC :::: CCTC	GAGG : : : : GAAG
570 GAGTC' ::::: GAGTC' 290	640 TAACTZ ::::: TAACTZ	0 TGGT TGGT 430	0 AAAT :::: AAGT 500
777C 	TGGT : .: TCAT	700 CTTCT :::::	770 780 790 human CGGCAAAATGAGGAAAACAACGAAAGCTGAA :::::::::::::::::::::::::::::::::::
		H H H H	
human murine	human murine	human murine	human murine
E	E	Ħ	E

Fig. 18K

		10		20	30	40	20	09
I400	MDTSMNFS	RGLKMDL	MQPYDFE	T-FQDLRP	FLEEYWVS	1400 MDTSMNFSRGLKMDLMQPYDFET-FQDLRPFLEEYWVSSFLIVVVYLLLIVVGQTYMRTRKSFSLQRP	IVVGQTYMRTI	RKSFSLQRP
CIG30		 LTL	: :.:: -QEYEFE 10	: KQFNENEA 20	.IQWMQENWKK 30	: ::: : : : : : : : : : : : : : : : :	: : : IFGGRHLMNK) 50	: :::: RAKFELRKP 60
I400 CIG30	70 LILWSFFLAIFSIL(:.:::.:::: LVLWSLTLAVFSIF(AIFSILG :.:: AVFSIFG	80 STLRMWKF:.::.: SALRTGAY	90 MATVMFTVC ::: MVYILMTKC 90	100 GLKQTVCFAI: :::::: GLKQSVCDQG	70 80 130 110 120 130 130 1400 LILWSFFLAIFSILGTLRWWKFWATVMFTVGLKQTVCFAIYTDDAVVRFWSFLFLLSKVVELGDTAFIIL :::::::::::::::::::::::::::::::::::	120 FLFLLSKVVEI . :.::.: YAFVLSKAPEI	130 LGDTAFIIL :::::::: LGDTIFIIL 130
1400 CIG30	140 I400 RKRPLIFVHWYHHS' ::::::::: CIG30 RKQKLIFLHWYHHI'	1: :::::: :wyhhir	150 TVLLFTSF ::::::. TVLLYSWY 150	160 GYKNKVPS .:: SYKDMVAG	170 GGWFMTMNFG:::::: GGWFMTMNYG'	140 150 200 I400 RKRPLIFVHWYHHSTVLLFTSFGYKNKVPSGGWFMTMNFGVHSVMYTYYTMKAAKLKHPNLLPMVITSLQ ::::::::::::::::::::::::::::::::::::	190 KAAKLKHPNLI ::: RAAGFRVSRKI	200 LPMVITSLQ : :: : FAMFITLSQ 200
I,	210 I400 ILQMVI : ::	22 GTIFGI .: 4GCVVNY 210	220 SILNYIWRQ: . : . : : NYLVFCWMQ: 22	230 RQEKGCHTTT : :: 4QHDQCHSHF 220	240 EHFFWSFMLY ::: QNIFWSSLMY 230	210 220 240 250 270 270 270 270 270 270 270 270 270 27	260 FHRAYLRPKGKY : ::. : . FFEAYI-GKMRJ	270 VASKSQ : KTTKAE 260

Fig. 18L

10 20 30 40 50 60 I400 ATGAACATGTCAGTGTTGACTTTACAAGAATATGAATTCGAAAAGCAGTTCAACGAGAATGAAGC :::::::::::::::::::::::::::::::::::	70 80 100 110 120 I400CATCCAATGGATGCAGGAAAACTGGAAGAAATCTTTCCT-GTTTTCTGC-TCTGTATGCT :::::::::::::::::::::::::::::::::::	130 140 150 160 170 190 I400 GCCTTTATATTCGGTGGTCGGCACCTA-ATGAATAAACGAGCAAAGTTTGAACT-GAGGAAGCCATTAGT :: :: :: :: :: :: :: :: :: :: :: :: ::	200 240 250 260 I400 GCTCTGGTCTTTGCAGTCTTCAGTATATTCGGTGCTCTTCGAACTGGTGCTTATATGGTGTAC ::::::::::::::::::::::::::::::::::::
140(1400	I40(1400
CIG3(CIG30		CIG30

Fig. 18M

A A	rnrn	E \ E \	E F.
GC2 ::	GAC GCC	TAC ::: TAC	TC1
: : :TAG' 340	10.11 10.11 10.11	TCC' GGA' 480	PACT(: : : PACA(550
F: D:	ATC	'AC'	0 H ·· H
320 0-0 0-0 00 00 00 00 00 00 00 00 00 00	390 3117 3177 3177	460 GGT : :	530 rgat : :: rcat
3GA(:: GA(11. 20. 11. 20. 11.	TT(
ATG(330	.TATT : : :CCTT	CTCT : : : CACZ 470	CGCC : TTCT 540
ACA ::-	CAA CAA) 5TA 5TT	520 TGCA : :: TCCA
310 TTT ::	350 380 390 ATTTGTGCTAAGCAACCCGAACTAGGAGATACAATATTCATTATTCTG ::::::::::::::::::::::::::::::::::	450 CTG:	490 530 GGGAGGTTGGTTCATGACTATGACTATGGCGTGCACGCCGTGATGTACTCT :::::::::::::::::::::::::::::::::
3 1111 1111 1111	AGA ::: AGA 0	TGCTC::: TGCTA	: : 530
320	4GGA(::: 3GGA(390	3TG ::: 3TG 46	 1 1 5
.:. CA.	0 1 1 1 1 1 1 1	CTC CAC	510 SAAC:
300 GAC GAC .:	370 GAAC' :::: GAAC'	440 TCAC' ::: GCAC'	1GA 1.:: 1GA
Ē . Ē	ACCC TGTT	: CACA! : : : : :CACA! 450	CTA' : : CCA' 520
ρ ·· Ε ο - · · · · · · · · · · · · · · · · · · ·	CAC TTC	CC2 CC2 45	GAC ::: GAC
GTTT(::::::::::::::::::::::::::::::::::	360 PAAAG ::::	430 ATCA : ::	500 CAT(:::
30 1CA(3.52 3.52 3.52 3.52 3.52 3.53 3.53 3.53	4. TAC: ::	
290 AGTC: : - :	TAAG::::	:: :: 	 510
AAGC :::: AAGC 300	3CT::71	2AC 2AC 4	3.5. 3.6.T
	350 161 177	420 CTG(490 GAG(: . :
280 GCCI GCCI		TCC:	
2 366	GCA' CTC' 360	FCT' FCT' FCT'	GGG- GTTC 500
CAAZ PAGTC 290	340 AATTCTGGGCTTATC .::::::::::::::::::::::::::::::::::::	GAJ CAJ	0 0 0 0 0 0 0 0 0 0
ACC 3:5 ACA 2	340 CTTT	410 GCT(.::	480 AAAGACATGGTT(::::: AAGAACAAAGT-(490
270 ATG.: TTT.		, , , , , ,	,TG(
1G7	СТG(:::3 350	CAG2 : . :CGTC 420	;ACA; ;:: ACA, 490
TTTT.:) \\T\T \\T\T\) 1.3.5 1.4.G) 1 A A G 1 G A
A . D	330 AA' .:	400 GAJ TAJ	470 AA::: AA(
270 310 320 I400 ATTTTGATGACCAAAGCAGTCAGTTTGTGACCAGGGTTTTTTACAATGGAC-CTGTCAGCA .: .:::::::::::::::::::::::::::::::::	330 340 350 360 370 380 390 I400 AATTCTGGGCTTATGCATTTGTGCTAAGCAAGCACCCGAACTAGGAGATACAATATTCATTATTCTGAG ::::::::::::::::::::::::::::::::::	400 410 420 430 440 450 460 I400 GAAGCAGAAGCTGATCTTCCTGCACTGGTATCACCATCACTGTGCTCCTGTACTCTTGGTACTCCTAC ::::::::::::::::::::::::::::::	470 480 530 I400 AAAGACATGGTTGCTTGGTTCATGACTATGAACTATGGCGTGCACGCCGTGATGTACTCT ::.::::::::::::::::::::::::::::::::
C H	CH	G H	CIC

Fig. 18N

540 550 600 400 TACTATGCCTTGCGGCGGCGGCTTTCCGAGTCTCCCGGAAGTTTGCCATGTTCATCACCTTGTCC ::::::::::::::::::::::::::::::::::	610 620 630 640 650 660 670 400 CAGATCACT-CAGATGCTGATGGCTTGATGGTTAACTACCTGGTCTTCTGCTGGATGCAGCATGACCAG :::::::::::::::::::::::::::::::::	680 730 740 740 720 730 740 740 720 730 740 740 750 750 740 740 750 750 750 740 740 750 750 750 740 750 750 750 750 750 750 750 750 750 75	750 770 780 790 400 CCATTTCTTTGAGGCCTACATCGGCAAAATGAGGAAAACAAC-GAAAGCTGAA :::::::::::::::::::::::::::::::::::	Fig. 180
1400	1400	1400	1400	
CIG30	CIG30	CIG30	CIG30	

40 L20 60 180 80 240 1003 120 360 140 420 Y GGT L ITG I ATC DGAC S AGC A 3CG A GCC Q CAG H L ₩ IGG G G G G K AAA H Y FAC K AAG A 3CT s ICC Q CAG Y PAC CHG V 3TA Y FAC L ITG M ATG MATG V 3TG F MATG S TCT T ACG W IGG CHC K AAA I ATC D GAC Y I ATC N AAC S ICA 9 9 9 9 L K AAA M ATG F TTC F TTC S ICC A I C ĸ AAG Y TAC V GTC M ATG Y TAC V GTC W TGG Q CAG s ICC A GCC A GCC CTG FF A GCC K AAG I ATC Y I'AC E GAG H F TTT Y TAC R AGG W IGG V GTA N AAC N AAC K AAG F PTT L S ICT 9 9 9 6 7 R CGG I ATT 2 CAG ъ ГТС I ATT Y TAC Y TAT s ICC V GTC F ITT F F G I ATC L N AAC V 3TC C IGT H H F 급 M ATG 78 79 99 99 99 S ာ ၁၅ I ATA V GTG TACT F M ATG Y PAC F LTC * rag T ACG T ACT M ATG G GGT L ဂ ၁၅ EGAG G F D GAT H ATC A 3CG MATG Q F I L 4 2 2 2 2 G GGT H W IGG A GCT Q CAG D GAC CTT K AAG 7. CGG GGT T ACT N AAT L Y IAC ACG CAC

Fig. 18P

TGTCAGAGCTGAGGAGGAAGACATAGCTCAGGGTCATCACGAAAAATAATAGACAAAAAAAA
CATATGGTGCAGCTAAAAAAAAAAAAAATTATGAGCAGACGCTAAGCCCAAGGCAGCTTGGGAGTGAAGATTAGGTT
GTAAGTTTATGATCCTTTTTGGGTGAGGACTCACTGAGAACACTGCTGCTGCTGAGGGACCCCCTTCCCTTTACCTGTCAA
CTCTAGAACACACTAGAAGCCAAGGCAGCCATGGGCAAGGAGATTAGTGGACAGCAAGCA
GGGAGATCTATTCAGAGTTTTTTTTTTTTTTTTTTTTTT
TGTGAGCACCCCACGCGCATGCAGACACCCCACCTACACACTATCTGCAGATGACCAGTGTCCTATGCTGTTTTTAC
AAATAAACTTGAGACAAGAAAAAAAAAAAAAAAAAAAAA

Fig. 180

10 20 30 40 50 60 70 10 10 20 30 rd 10 50 60 70 rd 10 solvanan mnmsvltloeyefekopnenealowmoenwkksflfsalyaafifggrhlmnkrakfelrkplvlwsltlurine	human AVFSIFGALRTGAYMVYILMTKGLKQSVCDQGFYNGPVSKFWAYAFVLSKAPELGDTIFIILRKQKLIFL urine	human HWYHHITVLLYSWYSYKDMVAGGGWFMTMNYGVHAVMYSYYALRAAGFRVSRKFAMFITLSQITQMLMGC urine HWYHHITVLLYSWYSYKDMVAGGGWFMTMNYGVHAVMYSYYALRAAGFRVSRKFAMFITLSQITQMLMGC rat HWYHHITVLLYSWYSYKDMVAGGGWFMTMNYGVHAVMYSYYALRAAGFRVSRKFAMFITLSQITQMLMGC	human VVNYLVFCWMQHDQCHSHFQNIFWSSLMYLSYLVLFCHFFFEAYIGKMRKTTKAE urine VINYLVFNWMQHDNDQCYSHFQNIFWSSLMYLSYLVLFCHFFFEAYIGKVKKATKAE rat VINYLVFNWMQHDNDQCYSHFQNIFWSSLMYLSYLLLFCHFFFEAYIGKVKKATKAE
man MNMSVL7	man AVFSIFC	man HWYHHII	nan VVNYLVE
ine	ine	ine HWYHHII	ine VINYLVE
rat	rat	rat HWYHHII	at VINYLVE
human	human	human	human
murine	murine	murine	murine
rat	rat	rat	rat

Fig. 18R

79	158	22.9	N	289	45	349		409		469	0	529	~	589
GTC	3TGA	ር ካ	O	GGT	H	CTA	Д	GAC	দ	TTC	ഥ	TTC	ტ	ggC
3GGC(BAGGG	V GTG		GAG	Ц	CTG	ø	BCB	ц	CTC	>	GTC	Ц	CTT
TAGO	GAAC	T L		TCC	Ω	GAC	₽	ACT	Д	CCC	ტ	969	Ø	GCG
BAGAG	3AGC?	ტ ₩ ₩	, ,	GAC	Ø	GCC	Ø	GCT	Æ	GCG	ĸ	CGC	吐	CGG
SCCGG	CTAG	۳. ۲. ۲.	<u>с</u> ,	SCG	Ø	GCT	æ	CCC	Ы	TTG	ტ	GGT	д	$_{ m TTG}$
GGA	CGCA	ΣĀ	E	ACC	Ö	TGC	വ	CCT	M	$\mathbb{T}GG$		CTG		ACG
CCTG	ATGI	JUBU,	,)))	GGC	Н	ATC	ы	TTA	ტ	GGC	ď	GCG	Z	AAC
ACAP	ACCC	J. J. L.	, , , ,	TTA	Ŋ	\mathtt{TGT}	臼	GAG	Д	CCC		GAT		TCT
CCIC	TGCC	ילים בילי ז'לים בילי	,	GGG	×	AAA	Ø	GCC	民	CGC	ц	CTA	ഗ	TCA
ACCG) 1 2 1 1 1 1	J L J) } }	GTT	×	TAC	Д	CCA	ы	CTG	Þ	GAA	H	CTA
3CCGC	CCA	ᢕ᠐ᡷ᠐᠘ᡱᡛ᠘᠘ᡛ᠐᠘᠘᠘᠘᠘᠘᠘᠘᠘	, , ,	CGC	Д	CCC	>	GTG	ĸ	CGC	z	AAC	С	GAT
AGTO	AGGG	ک⊄ہتی	1	CTG	Ö	TGC	Д	GAC	0	CAG	Ħ	CAC	Ļ	CIC
TAAG	GGC2		; ; ∑	ATG	Z	AAC	0	CAG	ы	CIC	Ω	GAC	<u> </u>	CTG
CGGC	CCTC	ישני		TGC	Ħ	CAC	μŢ	CTG	ø	gag	L	CTA	ρ	AGG
;AGCG	GCCI	אַ נ'י אַ	ij	CTC	ь	CTC	ტ	999	Z	AAC	Ħ	CAC	<u></u>	CTG
9999;	CCGT	מטטער	, 1	CTG	ø	GCG	Ц	CTA	Ħ	CAC	μ	CTG	Ċ	360
GTCC	ອນນາ	ر 7) ; E	ACA	œ	CGT	Ċ	GGC	ഗ	AGC	Ø	CCC	V.	AGC
ACGC	AGAA	ر ښان) 1 1 0	999	Д	CCC	E	ACT	Ц	r D		CGC	A	7.)
GTCGACCCACGCGTCCGGGGAGCGCGGCTAAGAGTGCCGCACCGCCTCACAACCTGGGAACCGGAGAGTAGGGGCCGTC	GGCTGGCAAGAACCCGCCGTGCCTCCTCGGCAAGGGCCATCCGGTGCCACCCATGTCGCACTAGAGCAGAAGAGGGTGA	<u> </u>		<i>r</i> h		SSS		TGC	Д	GAC	<u>, -</u>		Z	AAC
GTCG	GGCI	ָר בויני	ן בי לו	CTG	[īz,	TTC	V.	AGC	,I	CIC	C	CAG	Δ	GTC

185 769 205 829 225 889 245 949 265 1009 165 709 A GCG L TTG G G G G L CTG Q CAG C TGC F TTT E GAA R CGC H A GCC D GAC D GAC P CCG L F TTC N AAC Y IAC TACC L ာ ညီင် 75 CGC F TTC 자 2GG N AAT L A GCC E GAG V GTG K AAG PCCT R CGC F S AGC A GCC H CAT PCCT L TTG V GTG LCTA L CTG L S AGC S AGC V GTA PCCT R CGC G GGC CTT L CFC G GGT S TCC N AAC L CTG S TCC . Gir L H A GCG I ATC N AAC G GGC A GCG AGCT K AAG H CAC R CGC L H CAC R CGG PCCC P CCA E GAG H GGA Q CAG A GCC CTG L TTG V GTA r CTG D GAC G GGC L Y TAC H CAC S ICG K AAG A GCG H F R CGG W TGG S CTC F ი მვი S TCC F AAC GGC RCGC A 3CC ာ ညီ L CTG F TTC S ICC A GCC Q CAG N AAC A A C r Tr 9 9 9 9 H S TCG STCC K AAG E GAG L CTA C TGC DGAC EGAG A GCC GFC LCTC L V GTA F TTT D GAC L CHC CIC D GAC F TTC H Y V GTC D GAC L ITG E GAA L A GCC Y TAC EGAG R CGC H CAC N AAC TACT PCCG L R GGC S AGC R CGC ာ ၂ရှင် V GTG CTT L RCGC A GCG H

Fig. 19B

325 1189 345 1249 365 385 1369 405 1429 425 1489 P CCG Q CAG H CAC F P CCA R CGC PCCC P E GAG TACG 9 9 9 9 A GCC Q CAG A GCA V GTC S TCC S AGC Q CAG Q CAG TACC T ACA F TTC GAC G GGA Д T ACC V GTA N AAC N AAC L CTG AAC PCCA P CCA Z N AAC A GCG N AAC H CAC F TTC Y TAC PCCG PCCA ၁၅ R AGG G GGC H A GCT CTC A GCC T ACA Y TAC CIC I ATA L CTG E GAG L CTG r CTG T ACC CIT A GCC CTT R CGC CCC VGTG S AGC P R AGG E GAG L TTG PCCC E GAG CTC PCCG LCTC L CTG Q CAG S AGC G GGG V GTG GTA PCCA L CTG \gt S TCC Q CAG GGC L CTT S TCA TACT ж С С PCCG R CGG PCCG D GAC A GCC PCCG 9 96C S TCC C FGC GGT S TCG A GCC K AAG L CTG F TTT V GTG A GCC V GTG L V GTT C TGC H A GCC H R CGT L WTGG V GTG VGTG V GTG PCCG C TGT R GGC A GCG A GCG A GCC F TTC S AGC E GAG 9 9 9 6 7 C TGC $^{
m Y}$ I ATT I ATC L CTC V GTG L CTG C TGC A GCT r CTG RCGC S AGC G GGA N AAC L CTG R CGC R AGA CAC M ATG GGC A GCG Y TAC T ACA C PCCA E GAG A GCC D GAT E GAG TACC H CAT CCC A GCT

Fig. 190

 $\boldsymbol{\sigma}$

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Fig. 19I

TCTCTGGCCCTGGGGCATCCCACCCGTTGTTCTGAAGGCAGAGCCCCATTCTGTGGGCTCACAAGACACACAGTGAAGGGGGATC 2530	2530
ATGGCCTGCACCCCTGCTTTTCAGCAGTAAAAGCCCGAAAAGCCTGGCGAGCATGGCCGAGCTGGGAGGGCCGAGCCGA	2609
GAACTCCACGTCCCTCGAGAGCAGGAGCCTCTTAAGGGCTGGCACTGGTCTCAGCCTAATGGCTGAGGCGGTACCCTGG 2688	2688
CTTCATATGCATCTCACTGCTCCCACTGCAGGGGGGGGAAGGGGGGGTCTGGGAGCCCTTCATGTGTGTG	2767
CTGGGGGCCCCCCATGGCCATCCTGGACCTCGCTGCTCCAGAGTTTAATAAAGGTAGCACATGCTTATTGCTAGAAAAA 2846	2846
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2895

Fig. 19E

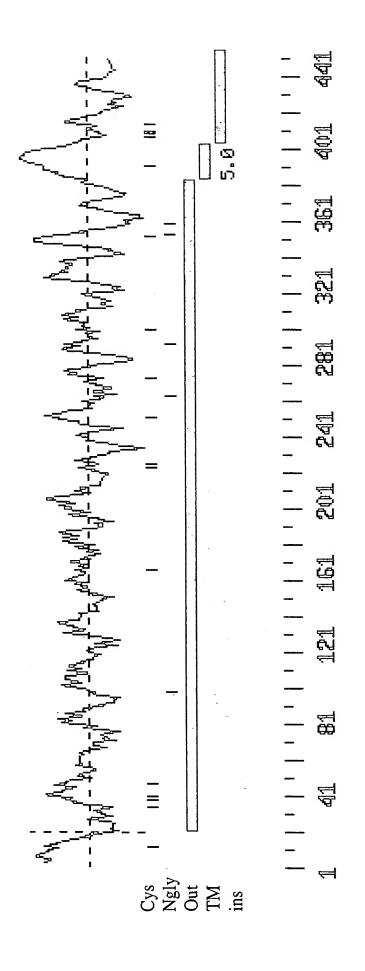


Fig. 19F

50 60 70 DLLSCTGLGLQDVPAELPAATADLDLSH :.:.:.:.:: DIGSALRANPSLTELCLRTNELGD 50 60	10 120 130 SGLRLLDLSSNTLRALGRHDL-DGLGA- . :: ::::: : : : : : : : : : : : : : :	170 180 190 200 CNELASFSFDHLHGLSATHLLTLDLSSNRLGHISV .::. : : .:. : : .:. : : .:. : .:. : .:. : .:. : .::. : .::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::	240 250 260 QRGLSAVRDFAREYVCLAFKVPASRVRFFQH : : : :
10 20 30 40 50 60 70 H MTWLVLLGTLLCMLRVGLGTPDSEGFPPRALHNCPYKCICAADLLSCTGLGLQDVPAELPAATADLDLSH : : : : : : : : : : : : : : : : : : :	80 100 110 120 130 H NALQRLRPGWLAPLFQLRALHLDHNELDALGRGVFVNASGLRLLDLSSNTLRALGRHDL-DGLGA: .: .: .: .: .: .: .: .: .: .: .:	140 150 160 170 180 190 200 HLEKLLLFNNRLVHLD-EHAFHGLRALSHLYLGCNELASFSFDHLHGLSATHLLTLDLSSNRLGHISV ::::::::::::::::::::::::::::::::::::	210 230 240 250 260 H PELAALPAFLKN-GLYLHNNPLPCDCRLYHLLQRWHQRGLSAVRDFAREYVCLAFKVPASRVRFFQH .:: : : : : : : : :

Fig. 19G

270 310 320 H SRVFENCSSA-PALGLKRPEEHLYALVGRSLRLYCNTSV-PAMRIAWVSPQQELLRAPGSRDGSI	330 340 350 360 370 380 390 H AVLADGSLAIGNVQEQHAGLFVCLATGPRLHHNQTHEYNVSVHFPRPEPEAFNTGFTTLLGCAVGLVLVL	STST :
310 YCNTSV-PAMRIAWVS :: LCESLLQPGCQLESLW 00	380 PRPEPEAFNTGFTTI : :: :: :: CLGDCEVTNSGCSSI 380	450 PPDAPSPQGQAS SVEDRLQALEGS 440
300 RLYCNTSV :: : :GARLLCESLL	370 THEYNVSVHF1	400 410 420 430 440 450 H LYLFAPPCRCCRRACPLPPLAPNTQPAPRAEPHK-SSVLSTTPPDAPSPQGQASTST : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
ALVGRSL :::::::: SLAGNKLGDE	360 ATGPRLHHNO' . : SGIQELCQAL'	430 TYQPAPRAEPHK ::. :. EQPGCALEQLV 420
270 280 290 SRVFENCSSA-PALGLKRPEEHLYALVGRSL	350 EQHAGLFVCLZ : LQLSSNKLGD	420 CPLPPLAPNT : : GVLQLLGSLE
28(SNCSSA-PALC :: SGCRDLCRVL(270	340 OGSLAIGNVQE : XKHLLEL	410 APPCRCCRRAC : : . DLSNNCVGDPC
270 H SRVFI · · · P DITAS	330 H AVLAI P MLTQN	400 H LYLFAP: : P LRELDL: 400

Fig. 19H

93 93 9	gag Glu	tta Leu	ggc Gly 110	cca Pro	gct Ala	дса А1а	gct Ala	gtg Val 105	Se t	tgc Cys	aac Asn	aag Lys	ttc Phe 100	gtc Val	CGG Arg	g er
288	cac His	gag G1u 95	ttt Phe	ttt Phe	cgc Arg	gtg Val	cga Arg 90	tcc Ser	gag Glu	tca Ser	gtg Val	aag Lys 85	ttt Phe	gtc Val	ttg Leu	gc
240	aca Thr 80	tac Tyr	gag Glu	cgc Arg	gaa G1u	ttt Phe 75	gat Asp	cat His	ctg Leu	gcc Ala	agt Ser 70	ctg Leu	ggc Gly	cgg Arg	cag Gln	ប្រស្
192	tgg Trp	cgc Arg	cgg Arg	ctc Leu	ctg Leu 60	cac His	tac Tyr	ctc Leu	agc Ser	tgc Cys 55	gac Asp	tgt Cys	CCC Pro	ctg Leu	ссд Рко 50	acsn
144	aac Asn	cac His	ctg Leu	tac TYr 45	ctc Leu	agg Arg	aac Asn	aag Lys	ctc Leu 40	tat Tyr	act Thr	cca Pro	ctg Leu	gca Ala 35	gct Ala	tg eu
96	gag Glu	cct Pro	atc Ile 30	tcc Ser	atc Ile	cat His	aaa Lys	ctg Leu 25	tgg Trp	aac Asn	Se K	tcc Ser	ctc Leu 20	gac Asp	ctg Leu	ct hr
48	cgg Arg	ctg Leu 15	cgc Arg	acc Thr	tta Leu	ggg Gl $_{ m Y}$	ctg Leu 10	ggt Gly	cac His	ttg Leu	cac His	aac Asn 5	ttt Phe	ctc Leu	ttt Phe	р 1 код 1 код

Fig. 19I

84	32	08	% %	76	24	7.2
m	4	4	Ŋ	ហ	9	9
ctc Leu	ccg Pro	gct Ala 160	cac His	aac Asn	cca Pro	ggc $_{ m G1}_{ m Y}$
agg Arg	tcc Ser	atc Ile	cag Gln 175	Cac His	gag Glu	gtg Val
ctg Leu	gtc Val	agc Ser	gag Glu	cac His 190	CCC Pro	att Ile
tcc Ser 125	tgg Trp	ggt ${ t Gly}$	caa Gln	ctg Leu	cgc Arg 205	tgt Cys
cag Gln	gcc Ala 140	gat Asp	gtg Val	cgc Arg	gct Ala	ggc G1y 220
ggc Gly	gtg Val	cag Gln 155	agg Arg	CCC Pro	aag Lys	ctg Leu
gtg Val	cgg Arg	tct Ser	ggc Gl <u>y</u> 170	ggg G 1Σ	caa Gln	ctg Leu
cag Gln	act Thr	gcc Ala	ata Ile	agt Ser 185	gtg Val	acc Thr
gcg Ala 120	gcc Ala	cca Pro	gcc Ala	gcc Ala	agt Ser 200	acc Thr
cac His	cct Pro 135	gcg Ala	tta Leu	ctg Leu	gtg Val	ttt Phe 215
ctg Leu	gtg Val	gtg Val 150	agc Ser	tgc Cys	aat Asn	ggc $_{ m G1Y}$
cag Gln	agt Ser	ctt Leu	ggc GlY 165	gtg Val	tac Tyr	aca Thr
gag Glu	acc Thr	ctg Leu	gat Asp	ttt Phe 180	gag Glu	aac Asn
gaa Glu 115	aac Asn	gag Glu	gct Ala	gtc Val	ctt Leu 195	ttc Phe
cct Pro	tgc Cys 130	aat Asn	ttg Leu	ggc Gly	aca Thr	act Thr 210
ctg Leu	ttc Phe	aag Lys 145	gtg Val	gca Ala	cag Gln	gag Glu

Fig. 19J

720	768	816	864	912	096	962
.gc .ys .40	ca 1a	act Thr	gtg Val	ctc Leu	ctc Leu 320	
ggc t Gly C	cgg g Arg A 255	agc a Ser I	cat g His V	cag c Gln I	caa c Gln L 3	
cgt Arg	CCC	ctt Leu 270	aag ${ m L} Y$ s	gtg Val	t tg Leu	
tgt Cys	tgg Trp	atg Met	cac His 285	cgt Arg	ggc G1⊻	
ccc Pro	tgc Cys	tcc Ser	gtc Val	ggc G1Y 300	atg Met	
cca Pro 235	cgt Arg	tcc Ser	agt Ser	aat Asn	ccc Pro 315	
gca Ala	aac Asn 250	cag Gln	gcc Ala	ctc Leu	aac Asn	
ttt Phe	cgc Arg	gca Ala 265	aag Lys	ggc Gly	tgc Cys	
ttg Leu	tgc Cys	agc Ser	cgc Arg 280	aag Lys	ctg Leu	
tac Tyr	gcc Ala	ctg Leu	agc Ser	aag Lys 295	gat Asp	
ctc Leu 230	cgg Arg	gag Glu	CCC	ggc Gly	tcc Ser 310	
ttg Leu	cag Gln 245	cag Gln	gca Ala	ccg Pro	gac Asp	
gtg Val	tgt Cys	ctc Leu 260	gat Asp	gag Glu	cca Pro	
ctg Leu	tgc Cys	cca Pro	cca Pro 275	ctg Leu	cct Pro	
gtg Val	cac His	agt Ser	cca Pro	ttc Phe 290	gta Val	
ctg Leu 225	tgt Cys	t S B B R	acg Thr	gtc Väl	gca Ala 305	ರ ರ

Fig. 19K

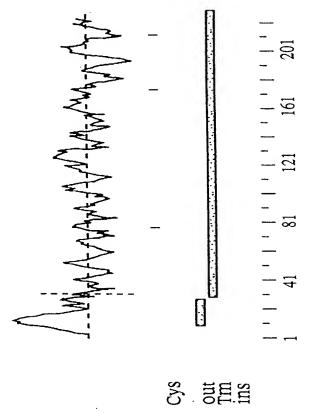


Fig. 19I

Fig. 19M

M	7	.PFLFNHLHGLGLTRLRTLDLSSNWLKHISI 30
Ħ	151 HAFHGLRALSHLYLGCNE	·
×	31 PELAALPTYLKNRLYLHNNPLPC	CDCSLYHLI
н	:	: :
×	81 CLVFKVSESRVRFFEHSF	CLVFKVSESRVRFFEHSRVFKNCSVAAAPGLELPEEQLHAQVGOSLRLFC 130
н		:
×	131 NTSVPATRVAWVSPKNEI	NTSVPATRVAWVSPKNELLVAPASQDGSIAVLADGSLAIGRVQEQHAGVF 180
н	301 NTSVPAMRIAWVSPQQEI	:
Z	181 VCLASGPRLHHNQTLEYN	VCLASGPRLHHNQTLEYNVSVQKARPEPETFNTGFTTLLGCIVGLVLVLL 230
Ħ	351 VCLATGPRLHHNQTHEYN	-
Z	231 YLFAPPCRGCCHCCQRAC	YLFAPPCRGCCHCCQRACRNRCWPRASSPLQELSA.QSSMLSTTPPDAPS 279
н	401 YLFAPPCRCCRRAC	 YLFAPPCRCCRRACPLPPLAPNTQPAPRAEPHKSSVLSTTPPDAPS 446
×	280 RKASVHKHVVFLEPGKKG	RKASVHKHVVFLEPGKKGLNGRVQLAVPPDSDLCNPMGLQL 320
出	447 PQGQASTST	455

130 429 150 489 10 69 30 50 189 70 908 110 369 N AAT N AAC L Q CAG C TGC L CTT L A GCC GAC F TTC CIC R CGA L CTT L CTG 9 9 9 9 L CTA CIG A GCG Gr PCCT A GCT T ACT I ATC F 2 CAG N AAC W TGG P CCC L V GTG မီ F Y Y TAC K AAA H CAT F Y TAT I ATA CTG K AAG Q CAG F TTC PCCC M ATG I ATC A GCA W TGG TACC S TCG A GCC Q CAG r CFC V GTG Q CAG F W TGG CTC S AGC A GCT Q CAG S AGC S AGC A GCA A GCC T ACG CCC CAC L CTG TACC G GGT L CTG M ATG N AAC E GAG ာ ဦင D GAC VGTG G GGG R CGG GTCGACCCACGCGTCCGGCGAACCCCAGCGTCCGCCGAC I ATC K AAG S TCC V GTA TACA L CTG L CŢĞ TCC S AGC F S AGC M ATG M ATG R AGG ഗ GGC G GGG E GAA S TCC D GAC Q CAG ය රයිය ᠐ ACC G GGA D GAC G GGA C TGT G GGC F GTT CTGTS TCA L CŢĞ LCTG CHC S AGC \gt r CTT ი მმ*C* F o CAA A GCG S TCC F ATG E GAG M ATG 9 999 A GCC A GCC P CCA \mathbf{z} r CFC 9 96C A GCC A GCA CCC S AGT GTG > GGG M ATG V GTG A GCT L CTG TACC S TCG ტ A GCC FTTC F A GCA R AGA ATG F Σ

Fig. 20A

250 789 310 969 170 549 190 609 210 669 230 270 849 290 909 Q CAG V GTT R CGG M ATG L TTG I ATC TACC L CTG S AGT PCCC N AAC I ATC L CTG A GCC A GCA A GCA D GAC IATC D GAT PCCA V GTG 9 990 S AGC L CTG H Q CAG H L E GAG L CTG L S AGC K AAG A GCC V GTG L CTG L CTG L CTG L CTG E GAA S AGC N AAT MATG L CTG T ACA A GCA K AAG A GCA L IATC H CAC S TCC G GGG ACC V GTG W TGG I ATC I ATC CHC K AAA LCTC R CGT A GCC V GTC D GAC L TTG Y TAC PCCT I ATT S AGC GIC I ATC > A GCT L V GTC LCTC VGTG N AAC I ATC GTT > D GAC F TTC TACC L CTG д GGC F TTT GGA PCCG မ ၁၅ G GGG K AAG g GGC S AGC Q CAG ж С С С A GCA V GTG TACA E GAG F TTC Q CAG \overline{F} F TTC $\frac{1}{1}$ V GTC I ATC E GAG S TCC L CTC 9 9 9 9 N AAC S AGC V GTG V GTG L CTA 9 9 9 9 D GAC 9 9 9 9 V GTG F L E GAA V GTG E GAG A GCC Q CAG F L ITG M ATG G GGG S AGC TACT CCC CCC C TGC A GCC V GTG A GCG Q CAG LCTC G G G G IATC F I ATT M ATG I ATC I ATC K AAG V GTT Y TAC S AGC A GCC R CGC TACC A GCC Y H A GCA DGAC S AGC T ACC

Fig. 20B

ဗ ဥ	W TGG	GAG	W E A F H TGG GAG GCC TTC CAT	TTC TTC	H	A GCA	CIG	Q CAG	I ATC	L	ල්ලී ල	F	L I CTC ATA	I ATA	L	L I CTT ATA	I ATA	უ ეტე	T ACT	330
A CC	L CTC	Y TAC	L Y N G L H CTC TAC AAT GGG CTA CAC	ტ ტტტ	L CTA		R CGT	P CCG	L CTG	L CTG	9 99 0	R CGC	CTG	S TCC	R AGG	ტ ტ	R CGG	CCC	L CTG	350 1089
A CA	E GAG	E GAG	E E S E GAG GAG AGC GAG	EGAG	Q E CAG GAG		R AGA	L CTG	L CTG	G GGT	9 99C	T ACC	R CGC	T ACT	CCC	IATC	N AAT	D GAT	A GCC	370 1149
လ င်င်	* TGA																			372
GTJ	ເວລລະ	GGAG	GITCCCTGGAGGCTTCTACTGCCACCCGGGTGCTCCTTCTCCCTGAGACTGAGGCCACACAGGCTGGTGGGCCCCCGAA	CTAC	TGCC	ACCC	GGGT	GCTC	CTTC	TCCC	TGAG	;ACTG	3AGGC	CACA	ACAGG	BCTGG	TGGG	SCCC		1234
J J	CTAI	ວວວວະ	GCCCTATCCCCAAGGCCTCACCCTGTCCCCTGCCAGAACCCCCAGGGCAGCTGCTGCCACAGAAGATAACAACAC	CCTC	ACCC	TGTC	CCCT	CCCT	GCAG	AAACC	CCCA	\GGGC	AGCT	GCTG	GCCAC	AGAA	AGATA	ACAZ	CAC	1313
CAZ	GTCC	TCT	CAAGTCCTCTTTTTCTCACTACCACCTGCAGGTGTGTTACCCCAGCCCCCACAAGCCTGAGTGCAGTGGCAGAGCCTC	TCAC	TACC	ACCT	GCAG	GGTG	GTGT	TACC	CAGC	אככככ	ACAP	\GCC1	GAG1	rgcac	STGGC	AGAC		1392
[GC]	CTCI	GGAC	GCTCTCTGGACCCCTCCTACAGCACTAGAGCTAAATCATGAAGTTGAATTGTAGGAATTTACCACCGTAGTGTATCTG	CCTA	ACAGC	ACTA	GAGC	TAAA	TCAT	GAAG	TTGA	ATTG	TAGG	AAATT	TACC	PACCE	STAGI	GTAT		1471
ATC	ATA?	ACTA	ATCATAAACTAGATTATCATAAAAAAAAAAAAAAAAAAA	ATCA	TAAA	AAAA	AAAA	AAAA	AGGG	ാളൊ	CGC									1518

Fig. 20C

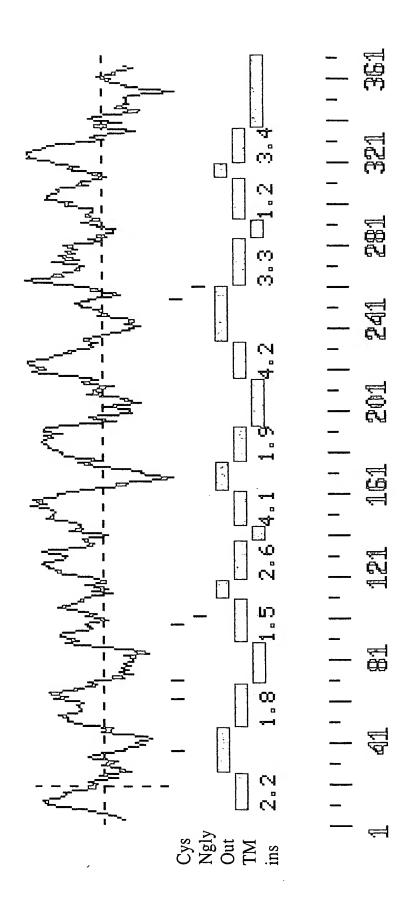


Fig. 20D

5 25 132 65 252 125 145 45 192 85 312 105 372 432 492 TGG F L CTG G GGA N AAC LCTG CTC ≥ TGG ⋈ TGG CIT K AAG R CGG Q CAA H CAC GCC æ Z H CAC G GGG GTG . CGG CTG ი მვი s TCC GCT ø \gt CCA Д GAG TACT VGTA E GAG K AAA GCC S AGT ø, 闰 gcc ď GCT CCC L CTG V GTA Q CAG AAT GTG > 4 Z ATG Ξ 999 TACG A GCC E GAG TAC V GTC I ATC Ö × GTCGACCCACGCGTCCGCGGGACAGCTGGCCTGAAGCTCAGAGCCGGGGGGGTGCGCC ATT A GCC T ACG E GAG C TGT CCC CCC TAC × Н 960 L CTG L CTG M ATG ACC E GAG 2 CAG Ö Н CTG E GAG T ACG S AGC JGC TACT r CIG Ц ပ GGC GGG r CŢĞ F TTC K AAG AAG F . ტ Ç × A GCC TGG S TCT K AAG CCC T ACA R CGC \geq Д CTG S TCT CIG F TTT E GAG I ATC Q CAG ᆸ AGG GTG CIG F TIC GTG TTC F മ്പ് > \gt ſτι GCA GAC A GCC ACA CCC CCC N AAC A GCC Н ø GCA AAG Q CAG E GAG F TAC A GCC × × Þ r CTG I ATC CGT E GAG T. ACC R CGA ာ ဦင္ပင 凶 L CTG P မ ဗိုင္ပ A GCC WE GAG GGC G TGG V GTG T ACC မ ဗိုင္ပ S TCC TACC C TGT 3 V GTC Q CAG CIT V GTG IATC Q CAG GTC > A GCT N AAC S TCC Y A GCG Y TAC N AAC

Fig. 21A

1026 1105 868 947 165 552 185 612 205 672 225 732 244 789 GCTCGTGTGGCCCCGTGTCTGCAAGGGCGATATGGGGGGGCGCACGGACCCTGCAGAGGAAGTGGACCACGTTCCTGAAGG CGCGGCTGGCATGCTCTGCCCCGAACTGGCAGCTCTACTTCAACCAGCTGCAGGCGATGCACACCCTGCAGGACACCTC 9 9 9 9 ာ TgC TACC T ACA CACGGGGGGACGACGACAAGGTCTACTTCTTCAGGGAGCGGGCAGTGGAGTCCGACTGCTATGCCGAGCAGGTGGTG AGACAGAGTACCTGGCCTTTTGGCTCAACGAACCTCACTTTGTAGGCTCTGCCTATGTACCTGAGAGTGTGGGCAGCTT MATG C TGT S TCA T ACA * TGA H CAC T T P ACC ACT CCA PCCT G GGA R AGA R CGT L V GTC PCCA S AGT TACT V GTC R CGG CCC TGG A GCA TACT S TCT M G TGG GGC C TGT CFC L R AGG S AGC G GGA CIT S TCT T ACA V GTG T ACC M ATG T ACC S C V TCC TGC GTA CTC I ATC K AAG MATG CHC L CTC Γ W TGG A GCC S AGT L CTC Γ L TTA CCC E GAG F H CAT N P AAC CCA A GCC CCC K AAG M ATG S AGC Q CAG L L CGG CCCA GCC $\overline{\mathbf{W}}$ M ATG A GCA A GCC CTGTCIT PCCT ¶ ¶GG 자 0GG S AGC R AGG S TCA အ TCC PCCT Q CAG PCCT L T ACT Q CAG PCCA S TCA

Fig. 21B

1263 1342 1895 2053 CTGGCACACACCACCTTCTTTGGGGTTTTTCAAGCACAGTGGGGTGACATGTACCTGTCGGCCATCTGTGAGTACCAG 1184 GGGGCGCGCGCTGCTGAAGGCTACCTTGTGGCTGTCGTGGCAGGCCCGTCGGTGACCTTGGAGGCCCGGGCCCCCC 1421 ATTGCGCCGGCGGCTGCGGGAAGAGCTGGAGAAAGGGGCCCAAGGCTACTGAGAGGACCTTGGTGTACCCCCTGGAGCTG 1579 CATCCCAGGCCAGCCTCTGCCTTCTCCAACTCGGCTTCACCTGGGGGGGTGGGCGGAACTCAAATGCCAATGGTTACGTG 1816 TGCAGCAACGCCAGCCACTGCCCGACTCCAACCCCGAGGAGTCATCAGTATGAGGGGAACCCCCACCGCGTCGGCGGA 1974 ACCCTGTACCCAGGCCCTGGTTGTGATGGCTGCCCAGCCCCGCCATGCCGGGGCCTACCACTGCTTTTCAGAGGAGCAG CCCAAGGAGCCCACCAGTCCCCCCTTCCGGCCCTGTCCTGAACCAGATGAGAAACTTTGGGATCCTGTCGGTTACTACT TTGGAAGAGATCCAGCGGGTGTTTGAGGGCCCCCTATAAGGAGTACCATGAGGAAGCCCCAGAAGTGGGACCGCTACACTG ATTCAGATGGCTCCCTTAAGATAGTACCTGGGCATGCCCGGTGCCAGCCCGGTGGGGGGCCCCCTTCGCCACCTCCAGG

Fig. 21C

2811	GTCCCCGCGTATTTATTTGTAAATATTTTGAGATTTTTATATTGA
2764	AGAGGGTGGGCCTGCTGTGGACAATGGCATACTCTTCCAGCCCTAGGAGGAGGGCTCCTAACAGTGTAACTTATTGT 2764
2685	GCCCCGGGGGTTCAGTGTATTTTATACTTGCCTTCTTCTTACAGGGCTGGGAAAGGCTGTGTGTG
2606	TGAATGTTTTCAGGGTGGGGGGAGAGATGGAGCCTCCTGTGTGTTTTGGGGGGAAGGGTGGGT
2527	AGGTGGGGTGGACAGGGTGCTGTGCCCCTTCAGAGGGAGTGCAGGGCTTGGGGGTGGGCCTAGTCCTGCTCCTAGGGCTG
2448	CTATGAAGGGGAAGGGGTCGTATCACTTTGTCTCTCCTACCCCCACTGCCCCGAGTGTCGGGCAGCGATGTACATATGG
2369	GCGTGCGCGCTTGTGGCATAGCCTTCCTGTTTCTGTCAAGTCTTCCCTTGGCCTGGGTCCTCCTGGTGAGTCATTGGAG
2290	TCAAGGCAGAAGTTTCAAGATGTGTTTTGTCTGTATTTGCACATGTGTTTTGTGTGTG
2211	CAGGGCACCAGCCTCGCAGAAGGCATCTTCCTCTCTGTGAATCACAGACACGGGGACCCCAGCCGGCAAAACTTT
2132	GACAGATACTGCCCAGCACCCAGCCCATGAGGACCTGCTCTGCTCAGCACGGGCACTGCCACTTGGTGTGTGGCTCTCAC 2132

Fig. 21I

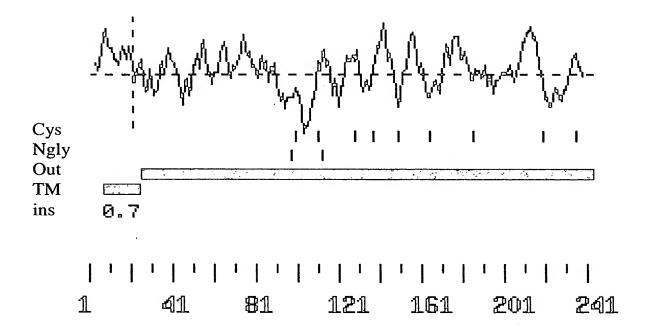


Fig. 21E

				- W :	- 67
70 GAR ::: GAR 70	140 TYI ::. TYV 140	210 FWL		280 FLK 	350 YSE
7.X7 7.X7 7.X0	PKC ::: PKC	YLA	 	VTT	- K
3GL] ::: [GL]	\F\Q\] \rac{1}{2} \\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(TE)	į	įKKI	GP)
60 TEHS:: TEPT	0 4YT ::: 4YT 0	0 SIR		0 71F	0 VFE
71.1 1.1.1 1.1.1	130 VCGT :::: VCGT	200 THHS		270 GART	340 IQQV
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DF1	ISSI • : • IASI	LR	į	IKGI	ĬŶŶĮ
20	140 NFIRFLQPYNSSHLYVCGTYAFQPKCTYI ::::::::::::::::::::::::::::::::::::	160 170 180 190 200 210 KGKCPYDPAKGHTGLLVDGELYSATLNNFLGTEPVILRYMGTHHSIKTEYLAFWL	1	240 250 260 270 280 IYFFFSERAVEYDCYSEQVVARVARVCKGDMGGARTLQKKWTTFLK :	330 AVCE
SQT :::: SQT	7 7 7 1 1 1 1 1 1 1	1 STE	! !	2 RVA	
7RF:::	H . H	AF.L		WA))MD:
	FNI FNI	LINI	į	O E	IMGI
40 LVT :.: LAT 40	1110 1110 110	180 SAT		250 CYS:	320 QARI
S G :: В В :: Н	ONIN ONIN	ELY	 	ВУ 	3VF
	(GK)	7DG.	İ	RAV] : R	五 日 日
30 PRK:::: PRK:		0 ![[]	į	0 S	0 LTN
10 E	100 IECT IECT 100	170 HTGL		7 24 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	310 SWHN
VWV :::	3KK :::	4KG	 	KIY.	RGA
EM:	APAI S. APVI	7DP.	į	[QQ(11 : F
20 IIGZ :::: IIGZ 20	90 WEA :::: WE2	160 KCP3	ļ	230 GSFTGDDDK:	300 KAVHTI :. :: -ALLTI
GLG :::: GLG	A : A : A : A : A : A : A : A : A : A :	1 KGK	 	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	3 2LK
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10 WLL. WLL.	80 VEA .:: MEA 80	150 DRA	! ! !	220 VGSAFVP ::.:	290 PDWI
WAV ::: WAV	ል ፡፡ ላ ት ፡፡ ት እ ፡፡ እ	T.F.		ა მე 1 1	.VCSA :- CPQ 150
10	80 100 110 120 140 EALFAFSVEALELQGAISWEAPAEKKIECTQKGKSNQTECFNFIRFLQPYNSSHLYVCGTYAFQPKCTYI::::::::::::::::::::::::::::::::::::	150 NMLTFTLDRAEFEDG	į į	220 NEPHFVGSAFVPESV ::.:	290 340 350 350 350 340 350 350 340 350 350 340 350 350 340 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 340 350 350 340 350 350 340 350 350 350 350 350 350 350 350 350 35
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Fig. 21F

370 380 390 400 410 420 RPGSCINNWHRDNGYTSSLELPDNTLNFIKKHPLMEDQVKPRLGRPLLVKKNTNF .: :: :: :: :: :: :: :: :: :: :: :: :: :	440 450 460 470 480 490 YTVLFIGTGDGWLLKAVSLGPWIHMVEELQVFDQEPVESLVLSQSKKVLFAGSRS .:.::::	510 520 530 540 550 560: .:: .:: .::: .:::	220 580 590 600 610 620 630 LPCHLSSNLAHAHWTFGSQDLPAEQPGSFLYDTGLQALVVMAAQSRHSGPYRCYS :	650 660 670 680 690 700 WVAGSSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGAK ::::ARNPLSCVT230
		TKYRF : F		
360 M QAQKWARYTDPVPSP : : HWTR	430 M THVVADRVPGLDGAT H S180	500 M QLVQLSLADCTKYRF :: :: : H QLRAM-LAF	210 570 M SIPKNITVVSGTDLV H	640 M EEQGTRLAAESYLVA H

Fig. 21G

O 만	į.		
770 GIPGQP		7	
760 PGGGPPSPPI	:: :: GPTTP 240	830 JPDSNPEESSV	
750 LKIVPGHARCÇ		820 LRRKLQQRQPI	
740 PVGYYYSDGS		810 GHPLPELADE	
730 GPETDEKLWD	M	800 QLGGEDRGGS	
720 ?KEPASPPFRF	 	790 ENSNANGYVRI	
710 720 730 740 750 750 770 770 770 750 760 770 M ASERTLVYPLELPKEPASPPFRPGPETDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPPPGIPGQP		780 790 800 810 820 830 M LPSPTRLHLGGGRNSNANGYVRLQLGGEDRGGSGHPLPELADELRRKLQQQRQPLPDSNPEESSV	
M A	H	Z W	I H

Fig. 21H

Z H	GGCACGAGG	10 GTGGCCGG; : .:: GACC	20 AGTCAA2	30 ACGCGAGGG : : : : -CACG	10 30 40 50 70 70 70 70	50 TTGGAGCTGCACG :::: CGCG	60 70 TGCACGAAAGAGGGCTGCTG ::::::::::::::::::::::::::::::	70 .::: .GCTG
M H	8 GACTGAAGT : ::::: GCCTGAAGC 30	80 TTTAGACC(: :: : CTCAGAGC(90 CTGGGTG : ::: : CGGGGCG	100 STCTGCCATG	80 130 140 GACTGAAGTTTAGACCCTGGGTGTCTGCCATGGCCCCCACACTGGGCTGTCTGGCTGCTGGCAGGGCTT :::::::::::::::::::::::::::::::::	120 GGCTGTCTGGC: ::::::::: GGCTGTCTGGC	130 rgcrggcagcag::::::::	140 GGCT GGCT
Z H	150 [GTGGGGCCTGGGCAT ::::::::::::::::::::::::::::::::::::	00 CGGGCATCC :::::: CGGGCATTC	160 GGGGCTG :::::: GGGGCTG	170 SAGATGTGGT :::::::	150 160 170 180 190 200 210 M GTGGGGCCTGGGGCCTGAGATGTGGTGGAACCTTGTGCCCCGGAAGACAGTATCTTCTGGGGAG ::::::::::::::::::::::::::::::::	190 CCCCGGAAGACZ :::::::: CCGCGTAAGACZ	200 AGTATCTTCTGG ::::::::::: AGTGTCTTCTGG	210 GGAG .:::
Z H	220 : cregrcacag' :::: :::: : cregccaceg' 170	10 GTAGTGA(:::::. GTAGTAC(180	230 GGCGGTT :::::: GGCGGTT	240 CTCCCAGAC: :::::::::	220 230 240 250 260 270 280 280 250 280 270 280 CTGGTCACAGTAGTGAGGGTTCTCCAGACAGGACTTCCTGACACTGACCTGACAGAAC :::::::::::::::::::::::::::::::	260 ACTTCCTGACA(::::::::: ACTTCCTGACA(220	270 STGACCCTGACA :::::::::::::::::::::::::::::::::::	280 GAAC ::::
Z H C		290 CCTTTTATA::::::::::::::::::::::::::::::	300 TGTGGGG :::: CGTGGGC	310 3GCCCGAGAG(::::::::: 3GCCCGAGAG(290 340 350 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 350 350 350 350 350 350	330 CTTCAGTGTAG2 ::::::::::::::::::::::::::::::::::::	340 AGGCTCTGGAGC:::::::::::: AGGCCCTGGAGC	350 TGCA ::::

Fig. 211

420 CAG ::: CAG	490 CCT :::	560 GGA 630	0	700 CCA
4 4 5 : : :	2AC :::	3AG 6	1	CTC
CAZ CAZ	99 :: 99	FF I		CA(
3AG :: 3AA 70	ာ် - မည်း - မည်း	TA1.		: : : : 240
410 GAAGA(::::: GAAGA,	480 GTCTG(::::: GTCTG' 440	550 CAGA : : C 620 CGGT	, , , , , , , , , , , , , , , , , , ,	690 ACCC .::
4 GG :: GG	44 	31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00	CG	6.3 6.3 6.6 6.0 0
AAG ::: AAG	() () (I (I (I (I	55 CGTGCA :::: -GTGC- 62	1	666 : : 676 550
.:. 634.	440 450 460 470 480 490 TTCATCCGCTTCCTTCAGCCATACAATTCCTCCCATCTGTATGTCTGCGGCACCT ::::::::::::::::::::::::::::::::::	540 550 560 CCTTGGACCGTGCAGAATTTGAGGA :::::: TGAGTGC 480 620 630 ACTCCTTGTGGACGGTGAGCTGTAC		690 CATGGGGACCCAC :::::::: -ATGTGG-CCCAC 550
400 .cccag. :::: .Tccag.	470 CCATC' ::::: CCACC' 430	540 TTGGA ::. -TGA- 480 610	 	680 ATAC
4 'AC(: 'AT'(4 0 0 0	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ü Ü	68 GA C
7.67 7.67 7.67		CAC 1 - 1	:::: :::::::::::::::::::::::::::::::::	TH.
:		510 520 530 AGTGCACCTACATCAACATGCTCACGTTCA(:::::::::::: AGTGCACCTACGTCG	cctacctcggtgtc-c-ccagcccc	i G
390 ATTGA : ::: ACTGA	460 ACAAT' ::::: ACAAT' 420	530 CACG 	: : : : : : : : : : : : : : : : : : :	670 TTAT
3.0 AA'. .: .GA(4. TAC: ::		¿	GT.
3.4.2 3.4.2 3.4.2	3 : : : : : : : : : : : : : : : : : : :	0 1 6) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5) : (5)
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380 TGAGA :::: GGAGA 340	450 CTTCA::: CTGCA:	520 TCAA TCG-		660 ACAG .:. TCGT
35 7 10 10 10 10 10 10 10 10 10 10 10 10 10	4 5 :: 5	52 ATC GTC	: TAC	660 CTGGGCACA(:::::::: CTGGACTCGT
CAG : :		FAC FAC	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$	366 368 5
υ Ε	440 TTCATCCGCTTCCT ::::::::::::::::::::::::::::::::	510 AGTGCACCTACATCA :::::::::::: AGTGCACCTACGTCG 470 580 580 590	; ;	660 CTGGGCACAGAGC :::::::::: CTGGACTCGTGG- 540
370 ;AGGCT :::: ;AGGCC	440 CATCC ::::: CATCC 400	-0 -0 -0 	1	1 I C
37 GAC :::	44 TC7 :::		 CCCT- 490	650 ACTT .:: TCT-
ენე: :: ენე:	:: ::	. : : ! A A!	1 FI G D A	ATA 530
	2. : : :			CAA C C 5
320	0 1117 1117 1117 1390	500 GCCTTCCAGCCCA ::::::::::: GCCTTCCAGCCCA 460 570		
36 381 381 381	430 rgcr': :::: rgcr'	500 FCCA(FCCA(570)))	640 4CAC' .::: TCAC
Ö Ö	:	D · D		
360 370 380 420 AGGAGCGATCTTTGGGAGGCTCCAGCTGAGAAAATTGAATGTACCCAGAAAGGGAAGACAACCAG ::::::::::::::::	430 ACCGAATGCTTCAAC ::::::::::: ACCGAGTGCTTCAAC 80	500 510 520 530 540 550 560 ATGCCTTCCAGCCCAAGTGCACCTACATCAACATGCTCACGTTCACCTTGGACCGTGCAGAATTTGAGGA : ::::::::::::::::::::::::::::::::) 	640 650 700 700 700 680 690 700 700 680 690 700 TCAGCCACTCCACTTCGATACTTCGATACTTCGACCCACCACTCCAACTCCTTCGATACTTCGATACTTCGACCCACCACTCCAACTCCACTCCAACTCCAACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGGACTCGTGACTCGTGACTCACTC
: AG: 310	430 M ACCGAATGCTTCAAC' :::::::::: H ACCGAGTGCTTCAAC' 380			
M H K	Z H	M H M	Ξ Ξ	Z H

Fig. 21J

770 CTGAGAG : :: -TTAGA-	840 GTATGAC ::::: GTTTGA- 640	0 AGCACGGACGC : :: : CTATGACCC 670	980 TCTACTT : .: -CAACAA	1050 3GTTTTT : :TAA
50 760 GCTCTGCCTTTGTCCC':::: -CTCTCTCTGTCC-'590	830 GCAGTGGAGTATGA .: .::::::::::::::::::::::::::::::::::	900 3GGGGAGCA(: .	970 ACTGGAAGG' ::: ACT	1040 TTCTTCGG(:: :: CTGCG
750 TAGGCTCTGC :::: .CCTCTC1 590	820 CTTCAGTGAGCGC ::: :::: CTT-TG-GAGCA- 630	890 GGTGACATGO :	960 CAGCCCCTG? : .: : : : 'CGGCCAC?	1030 .caacaccacc
740 AACCCCACTTTGTA :.: :::: . ATCTCCTCATCAC- 580	790 800 810 840 GGGAGACGATGACAAGATCTTCTTTCAGTGAGCGGGCAGTGGAGTATGAC ::::::::::::::::::::::::::::::::::::	880 GAGAGTCTGTAAG .::::: AAGTGTC	950 3GTTGGTGTGCTCAGCC : .: :: :: :: :: :: :: :: :: :: :: :: ::	10 CGGGGCGCCTCTTGGCA :::: ::. : CGGAAC-CCA-TTATC- 750
730 TTTGGCTGAATG. ::: TTAAGC	800 ATGACAAGAT(::::: ACATGCT(610	870 TCGTGTGGCGAGAGTCT : : . : : : : : GAAGGGCAAGTGTC- 650	930 GACGTTCCTGAAGGCTCGC :.:::::::: GGCCTTCTTGT-GGATGG1 0 700	1010 ccrgcggggcc :::.: CggAAC
10 GAGTACCTGGCTTTTTGGCT ::: -AGAGCCCTGCCCTTAAGC- 560 570	790 .cgggagacg <i>i</i>	860 CAGGTGGTGGC7 ::.:: -AGATGG	930 ;ACGACGTTCC :.: ::: ;CTGGCCTTC1 690	1000 CGGTGCACAC :. CA
7 TCAAGACA	780 TGTGGGAAGCTTCAC	850 TGCTATTCCGAG	920 TGCAGAAGAAATGG .::: AGCTAAGGGCCATG	990 1000 1010 1020 1030 1040 1050 caaccagergeracaccerrerreggerrerrerreggerrerrerrerrerrerre
Z H	Z H	Z H	Z H	M H

Fig. 21K

1120 AAGTGT	1190 ACCCAG : .: AGG	1260 CTGCCG : .: CGAC 880	1330 3CCGCC	1400 GATGGTGC .:: :: -GTGTGGC
1070 1080 1090 1100 1110 1120 GATATGGACCTGTCTGCAGTTTGTGAGTACCAGTTGGAACAGATCCAGCAAGTGT :::::::::::::::::::::::::::::::::	160 1170 1180 GAAGTGGGCCCGCTATACTGACCCGGTAC	1250 TCCCTGGAA : :::	1280 1320 1330 1330 1330 1330 1320 1330 133	1350 1360 1370 1380 1390 1400 AGAACACTAACTTCACACGTGGTGGCCGACAGGGTCCCAGGGCTTGATGGTGC: :: :: :: :: :: :: :: :: :: :: :: ::
1100 TACCAGTTGGA2 :::: -ACCA	60 1170 1180 AAGTGGGCCCGCTATACTGACCCG:::::::::::::::::::::::::::::::::	1230 1240 CGAGACAATGGCTACACCAGT ::::::: -GAGT-GTGGGCAGCTTCA 860 870	1310 1320 3AGGACCAGGTGAAGCCTCGG :::::::::::::::::::::::::::::::::::	1380 CGACAGGGTCC :: TC-
1090 AGTTTGTGAGT	0 CAAGCCCAGAAGTG ::: CTGGCCTTTTG	1230 ACCGAGACAAT :::	1300 CCTGATGGAGG :: GG	1360 1370 AACTTCACACACGTGGTGGC: ::::::: TGCCGAGCAGGTGGTGGC
1080 ACCTGTCTGC? :: :	1150 CAGTGAGCAAGCC ::: CCTGGCC	1220 AACAACTGGC? ::: CTGA 850	1290 AGAAGCACCCC .:.:: GGGAGC	1360 TAACTTCACAC : :: -TGCCGAGG
0 1070 TGGGGCGATATGG ::::: TGGGGC	1140 TACAAGGAGTACA ::: :::: -ACAGAGTAC- 800	1210 TTCGTGTATCA :::::	1280 TCAACTTCATCAAGAAGCA .:::::::::: ACTTCTTCAGGGAGC-	1350 AGAAGAACAC'
106 CAAGCGCGA' :: CA'	1130 1140 1150 1160 1170 1180 1190 M TTGAGGGTCCCTACAAGGAGTACAGTGAGCCCAGAAGTGGGCCCGCTATACTGACCCGGTACCCAG :::::::::::::::::::::::::::::::::	1200 CCCTCGGCCTGGTTC : ::::. CTCTGCCTA	1270 GACAACACCCTCAAC ::::: : ::::: GACAAGGTCTACTTC 890	1340 CCCTACTTGTGAAGA ::::: CTGCTA
z z	M H	M H	E H	M H

Fig. 21L

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1610
                                                                                                                                                                                                                                                                             1750
1620 1630 1640 1650 1660 1670 1680 1680 1670 1000 TITICTGTGTAGACTGTGCCAGGGACCCTTACTGTGCCTGGAATGTCAACACCAGCCGCTGTGTG
                                                                                           M AGAAGGTGCTCTTTGCTGGCTCCCGCTCTCAGCTGGTTCAGCTGTCTCTGGCCGACTGCACAAAGTACCG
                           M ATCCACATGGTGGAGGAACTGCAGGTGTTTGACCAGGAGCCAGTGGAAAGTCTGGTGCTGTCTCAGAGCA
                                                                                                                                                                                                                                                                                      GCCACCACCAGTGGTCGCTCGGGGTCCTTTCTGGTCCAACATGTGGCGAACTTGGACACTTCAAAGATGT
                                                                                                                                                               ---GGC-CATCTG-
                                                                                                                                                                                                       1670
                                                                                                                                                                                                                                                                            1740
                                                                                                                                       1600
                                                                   1530
                                                                                                               1030
                                             990
                                                                                                                                                                                                                                                                                                                H GTTT--TTCAA----GCACAGTGG-----GGT--GACATGTACCTGTC
                                                                                                                                     1590
                                                                                                                                                                                                                                                                             1730
                         --CAAGGG--C--GATATGGGGGGC---
                                                                                                               1020
                                                                   1510
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                                                                   1500
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                                                                                                                                                                                                                                                                              1700
                                  C--CGTGTCTG--
                                                                  1480
                                                                                                               1000
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Fig. 21M

1820 CAGACCT	1890 CCTGCCT ::.	1960 :acagrccc ::: ::: :ccagcccc	2030 TACCTTGT ::::::: TACCTTGT 1370	2100 :TCGTGTGG : ::::: :TGGTGTGG
1810 GTTGTGTCAGGCA : ::: ::: GGTGTTTGAGG	1880 CGGAAGCCAGGA ::::: -GGAAGC	1950 TGATGGCCGCA :::::::::: TGATGGCTGCC 1290	2020 TGCAGAAAGCT:::::::::::::::::::::::::::::	2090 AACCTGGGGCT:::::: AACCTGGGGCT
1770 1780 1790 1810 1820 TTAAAAAAGTCAGATCTATTCCCAAGAACATCACCGTTGTGTCAGGCACAGACCT :::::::::::::::::::::::::::::::::::	1840 1850 1860 1870 1880 1890 CCTCTCGGAAGCCAGGACCTGCCTTCGGAAGCCAGGACCTGCCTTCGGAAGCCAGGACCTGCCTTCGGAAGCCAGGACCTGCCTTCGGAAGCCAGGACCTGCCTTCGGAAGCCAGGACCTGCCTTCTGAAGCAAGC	1910 1920 1930 1940 1950 1960 TCCTTTCTTTATGACACGGGACTCCAGGCGCTGGTGGTGATGGCCGCACAGTCCC ::::::::::::::::::::::::::::::::::	1980 2020 2000 2010 2020 2033 ATCGTTGCTATTCAGAGGGACAGGGGACAAGACTGGCTGCAGAAAGCTACCTTG : : : : : : : : : : : : : : : : : : :	2050 2060 2070 2080 2090 2100 CTCGTCGTCGTCGGGCTCGTGTGG 2000 2100 2100 2100 2000 2000 2000 20
1790 TCCCAAGAAC	1860 CATGCCCACT .:.:: GTACC?	1930 GACTCCAGGC ::::::: GTAC-CCAGGC	2000 GAGCAGGGGAC? :::::::::: GAGCAGGGGGCG	2070 AGGCACGGGCTC::::::::::: AGGCCCGGGCCC
0 AAAAGTCAGATCTAT ::::::: AAGAGATC 1190	1850 rccaartrggcc ::.::.:: -ccraraagga- 1220	1920 TATGACACGGG; ::::: GACCCTGT;	1990 CTATTCAGAGGA :::::::::: CTTTTCAGAGGA	2060 GACACTGGAG ::: :::: GACCTTGGAG
1770 ATTAAAAAAG ::: AAG 1190	1840 ACCTCTCGTC :	1910 CTCCTTTCTT ::::::: CTACACT- 1260	1980 PATCGTTGCT:::::::::::::::::::::::::::::::	2050 3CTCGTCGGTGA :::::::::: 3CCCGTCGGTGA 90
1760 GTAACCAGTATGGCA' ::: ::::: GTA-CCAGT-TGG 180	1830 GGTCCTACCCTGCCA ::: GCC-	1900 GCAGAACAACCTGGC : ::::: GAAGTGGGACCGC	1970 1980 2000 2010 2020 2030 GTCACTCTGGACCTATCGTTATTCAGAGGAGCAGGGGACAAGACTGGCTGCAGAAAGCTACCTTGT : :: :: :: :: :: :: :: :: :: :: :: :: :	2040 2050 2060 2070 2080 2090 2100 TGCTGTCGTCGCTCGTCGTCACTCGAGGCACGGCTCCCTTGGAAAACCTGGGGCTCGTGTGG :::::::::::::::::::::::
M GTA ::: H GTA 1180	М GGT	M GCP : : H GAP	м GTO н соо	м т н обо 1

Fig. 21N

2110 2120 2130 2140 2150 2160 2170 CTGTGGTGCCCTGGGGCTGTGCTGCTGCTGCTCCTATCGCTCCGCCGGCGAC : : : : : : : : : : : : : : : : : : :	2180 2230 2240 TTCGAGAAGAGAAAAGGGTGCCAAGGCATCTGAGAGGACACTGGTGTACCCCTTGGAACTGCCCAA : ::::::::::::::::::::::::::::::::	2250 2260 2270 2280 2290 2300 2310 GGAGCCTGCCAGTCCTGGCCCCGAAACTGATGAGAAACTTTGGGATCCTGTCGGGTAC ::::::::::::::::::::::::::::::::::::	2320 2330 2340 2350 2360 2370 2380 TACTATTCGGATGGCTCTCTCAAGATTGTGCCTGGTCACGCCCGGTGCCAGCCTGGGGGTGGGCCCCTT ::::::::::::::::::::	2390 2400 2410 2420 2430 2440 2450 CCCCCACCTAGGCAGGTGGTCGGAA ::::::::::::::::::::::::::::::::::
21; resccres ::::::: resccres	219 SCTAGAAAA :::::: SCTGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	226 GTCCCCC ::::::: GTCCCCC	23. ATGGCTCT(:::::: ATGGCTCC(1670	24(:::::: :GGCATAC(::::::
2110 CTCGCTGTGGTGGCC :::::::::: CTGGCGGTGGTGGCC 1450 146	2180 TTCGAGAAGAG : :::::::: TGCGGGAAGAG	2250 GGAGCCTGCCAGTCC ::::::::::: GGAGCCCACCAGTCC 1590	2320 TACTATTCGGA :::::::::: TACTATTCAGA 1660	2390 CCCCACCTCCTGGCA : :::::::::: CGCCACCTCCAGGCA 1730
Z H	Z H	M H	M H	M H

Fig. 210

2460 2470 2480 2490 2500 2510 2520 CTCAAATGCCAATGGTTATGTGCGTTTACAGTTGGGCGGAGAGGACCGAGGAGGATCTGGGCACCCACTG ::::::::::::::::::::::::::::::::::::	2530 2540 2550 2560 2570 2580 2590 CCTGAGCTGCTGGATGAATTACGACGGAAACTACAACAGCGCCAGCCGCTGCCTGACTCCAACCCAGAGG :::::::::::::::::::::::::::	2600 2610 2620 2630 2640 2650 AGTCTTCAGTATGAGGGACCCCCCCCCCCCCTCATTGGCGGGGGGGG	660 2670 2680 2690 2700 2710 2720 M CTTTTGCACAGGCACCTACCTCAGGGACATGGCAGGGGCACTTGCTCTGCCTGGGACAGACA	730 2740 2750 . 2760 2770 2780 2790 M CATCATTTGCCCGGCCGTGAGGACCTGCTCAGCATGGGCACTGCCACTTGGTGTGGCTCACCAGG ::::::::::::::::::::::::::::::::
2510 AGGATCTGG :::.:: AGGGCTCGG	2580 CCTGACTCC :: :::: CCCGACTCC 1920	2640 2650 GTCTCATGGGAGGTGCA-CTCTTA :.::::::::::::::::::::::::::::::::::	2720 GCCTGGGACA(: :::::: GTCTGGGACA(050	2780 ACTTGGTGTG::::::::::::::::::::::::::::::
2490 2500 TGGGCGGAGAGCACCGAGGAGGA :.:::::::::::::::::::::::::::::	2570 :cagccgcrg ::::::::: :cagccacrg	2640 GGGGTCTCA : : :. .GCG	2710 ACTTGCTCT(:::::::::::::::::::::::::::::::	2770 GGGCACTGCCA ::::::::::: GGGCACTGCCA 2110
2490 TGGGCGGAGA : . : : : : : : TAGGAGGGGA	2560 ACAACAGCGC .::::::: GCAGCAACGC	2610 2620 2630 3GGACCCCCCCACCTCATTGGCGGGGGG :::::::::::::::::::::::::::::	2700 regcaegege :::::::: regcaegege	2760 AGCATGG ::::::: CTCAGCACGG
2470 2480 TTATGTGCGTTTACAGT:::::::::::::::::::::::	2550 GACGGAAACT7 :::::::: GACGCAAACTC	2620 CCCACCTCA1 :: :: :: CC-ACGCG1	2690 FCAGGGACAT ::::::::: FCAGGGACAT	27, CCTGCTC :::::: CCTGCTCTGCT(
2470 GTTATGTGC ::::::: GTTACGTGC	2540 TGAATTACG; ::::::: TGAACTGAG; 80	2610 3GGACCCC ::::::: 3GGGAACCC	2680 CCAGCTACCT(:::::::: CCAGCTACCT(2020	2750 CCGTGAGGACCTGCTC ::.:::::::::::::::::::::::::::::::::
2460 CTCAAATGCCAATGGT ::::::::::::: CTCAAATGCCAATGGT 1800	2530 GCTCGCGGATG ::::::::: GCTCGCGGATG 0	2600 2610 2620 2630 AGTCTTCAGTATGAGGGACCCCCCCCCCCTCATTGGCGGGGGGGG	2670 CTTTTGCACAGGCAC ::::::::::::: CTTTTGCACAGGCAC 2000	2740 TTTGCCCGGC .::::: CCCACCCGGC
M CTCAAA :::::: H CTCAAA 1800	M CCTGAG ::::: H CCTGAG	M AGTCTT ::::: H AGTCAT 1940	2660 M CTTTT ::::: H CTTTT 2000	2730 M CATCA :: :: H CAGCA 2070

Fig. 21P

2800 2810 2820 2830 2840 2850 2860 ACTTCAGCCTCACAGGAGACA-CACCCTCCTCTGTGAATTTGAGACATGTGGGACCCCAGCAGCCAAA .:.:::::::::::::::::::::::::::::::	2870 2880 2990 2900 2910 2920 ACTITGCAAGGAAGAGTTTCAAGATGTGGGCGTGTTTGTGCATATATGTGTTGGTATGCATGTGGAA :::::::::::::::::::::::::::::::	0 2940 2950 2950 2950 2980 2990 GAATGTGTGTGTGTGTGTTTGTAACTTTCCTGTCTCTATCACGTCTTCCCTTGGCCTGG ::::::::::::::::::::::::::::::::::	3000 3010 3020 3030 3040 3050 3060 GGTCCTCCTGGTTGAGGGGGAAGGGGGATCATAGCACTTTGCTTCTCCTACCCCC : :::::::::::::::::::::::::::::::	3070 3080 3100 3100 3110 3120 3130 AGCTGTCCCAAGCTTTGGGGCAGTGATGTACATACGGGGAAGGGAAGGACAGGGTGTTGTACCCCTTTTG : ::::::::::::::::::::::::::::::::
2800 2810 TTCAGCCTCACAGG . :::::::::: ACCAGCCTCGCAGA 40 2150	2870 2 TTGCAAGGAAGAGAGAGAGAGAGAGAGAGGCAGGCAGGCA	2940 :GTGTGTGTGTGT ::::: : : : :GTGTGCACGCGC	3010 GGTCCTCCTGGTTGAG' : ::::::::: G-TCCTCCTGGT-GAG' 2350	3080 GTCCCAAGCTTT : ::::::: GCCCCGAG-TGT
28 M ACTT .:. H GCAC 2140	M ACTT :::: H ACTT 2210	2930 M GAAT : · · : H GTGT 2280	3000 M GGTCC' : :: H G-TCC' 2350	3070 M AGCTG1 : ::: H A-CTGC

Fig. 21Q

TT . 450	ტ ტ ტ ტ	ტ ტ	# : # # : #	₹' ! !
0 GGGG' : : : : GGGG	3270 TCCG : : CCGG	GAAG :::: GAAG 0	3400 AACAGTGTA :::::::: AACAGTGTA 2750	0 AATG
3200 4GGCGG :: ::	3220 3230 3240 3250 3260 3270 AGATGGAACCTCCTGCTTCAGGGGGGGGGGGGGGCAGGGCCTCCCACTTGCCCTCCGGG ::::::::::::::::::::::::::	3330 GGGAGG :::::: GGGAGA	3400 -AACA(:::: TAACA(3430 3440 3450 3460 3470 ACATATTTATTTGTAAATATTTTGAGTATTTTTTATTGACAAATAAAT
:::: :::: :::2540	3260 CCACTT :::::: CCACTT	33 16666 .:::		; ; ;a
3190 TGTT1 :::::	32 CTCCC ::::::) FTGTT ::: FTGTG	0 AAGGG :::: GAGGG	3460 TATTG::::::::
TGAAT TGAAT TGAAT	30000 300000 300000	3320 3GT' :: 3GCTG' 2	3390 3GAAA ::::. 3GAGG	3420 3460 TGTCCCCACATATTTATTTGTAAATATTTGAGTATTTTTATATTGAC::::::::::
80 GCTG: GCTG: 21	3250 GGCAGG :: .: GGTGGG	3AAG(:::. 3AAA(60	ICTG(::. CCTA(30	50 ratt: ::: -att: 800
3180 TAGGGC :::::: TAGGGC 0	3; GGTGGG(:::::: GGTGGG' 2590	0 CTGG :::: CTGG	3380 CCTGCTC' ::::: CCAGCCC'	3450 TGAGTA' :::::: TGAG-A'
:::: ::::: ::::252	3240 GGAGG :::.: GGAAG	3310 AGGGC :::::	CTCC	TATT :::: TATT
3170 3270 32016 3370	3. 1.6666 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	:::: :GTAC	,0 ,TCCT(:: ,CTCT(2720	3440 TAAAT: :::: TAAA'
CTAGC :::: CTAGJ	30 -TTC? :: .)0 [TC-1 :::::	3370 GCCTAT(::::	16TTG :::::
3160 TGGGCC::::	3230 TGCT': :::::::::::::::::::::::::::::::::	3300 3CTCTT(:::: CTTCTT(540	0 .TACTGC : ::: .CAATGC 2710	3430 TTATT :::::: TTATT 2780
3. 3.3. 3.3. 3.3. 3.3. 3.3. 3.0. 0.0	3 ACCTCCTGC- .:::::: .GCCTCCTGTG	LTGCC::::	3360 GGATZ :::	34 FATTT :::::
0 TCGG(T-TG(25'	0 AACC; AGCCO	3290 ATAT: ::: ATAC: 0	CTATC:::CTGTC	
315 GGAC' :::: GGGC'	3220 AGATGGA ::::::: AGATGGA 2560	TTTTT:::::::::::::::::::::::::::::::::	50 CATGC : ::: CCTGC 2700	3420 rcccc ::::: rcccc
TGCG::::	GGAG ::	80 GGTA: :::: GGTA	3350 TGGGCA' ::::: TGGGCC'	3 TGTGTC :::::: TGTGTC
3140 3150 3160 3170 3180 3190 3200 GGGGAGTGCGGGACTCGGGGGTGGGCCTAGCCCTAGGGCTGTGAATGTTTTCAGGGCGGGGTT .::::::::::::::::::::::::::::::::	3210 3220 3230 3240 3250 3260 3270 GGGGGTGGAGATGGAACCTCCTGCTTCAGGGGGAGGGGTGGGCAGGGCCTCCCACTTGCCCTCCGGG ::: ::::::::::::::::::::::::::::::	3280 3330 TTCGGTGGTATTTTATATTTTGCGCTCTTC-TG-ACAGGGCTGGGAAGGGTTGTTGGGGGAGGGAAGGG ::::::::::::::::::::	3340 3350 3360 3370 3380 3390 3400 M AGGAGGTGGGCATACTGGCCTATCCTCTCCCTGCTCTGGGAAAAGGGCTAACAGTGTA ::.::::::::::::::::::::::::::::::::::	3410 ACTTATTGTGTCCCC :::::::::::: ACTTATTGTGTCCCC 2760
			3340 M AG(:: H AG2	
Z H	Z H	Z H	3対は	Z H

Fig. 21R

79	158	2 2 8 8	2 8 2 8 8	48 348	68 408	88 468	108 528
CCC	TGC	L CTC	S TCT	R AGA	E GAG	K AAA	N AAC
CGTC	36660	L CTA C	A GCT	H CAT	R AGA	D GAT	ი მე
GGAG	SCCGG	V GTT	K AAG	I ATA	E GAA	E GAA	D GAT
39000	TGGC	L CTG	РССА	F TTC	L CTA	D GAT	S TCA
SCGAG	CCTC	L CTT (G GGT	F TTT	N AAC	V GTG	K AAA
BAGAG	AGAG	T ACG (R AGA	N AAC	ი ე	$_{ m F}$	T ACA
igcg ₀	AAGA	F TTT A	A GCA	A GCA	PCCC	I ATT	T ACC
CCCI	ညညာ		C TGC	E GAA	T ACT	E GAG	P CCA
CAG	ACCG	SAGGTTTGAGGGCCCGGAGGGCCTGGCGGCCGAAGGAACCGCCCCAAGAAGAGCCTCTGGCCCGGGGGCTGC M F T L L V L IGGAACATGTGCGGGGGACACATTTGTTTGACAGTTGCCAGACT ATG TTT ACG CTT CTG GTT CTA CTC	H CAT	E GAA	F TTC	R AGA	G GGA
CATC	AGGZ		P CCT	K AAA	L CTC	A GCC	K AAA
36660	3CCG7	TTGC	F TTT	s TCA	E GAG	E GAA	A GCT
GCGG	38080	aacag	ტ ტტტ	ACA	L CTG	E GAG	S TCA
36060	CCTO	TTT	L CTG	F TTT	D GAT	Y TAT	Y TAT
GTG	AGGG	TTT	T ACC	V GTG	F TTT	N AAT	E GAA
BACGO	ACCG	ACAG	V T GTT ACC	E GAA	R AGA	C TGC	C A G
gece	GGAG	GGAC	P T CCC ACA	표 GAA	N AAT ?	$_{ m CTT}$	T.C.
GTC	ეენევ	36660	P CCC	G GGA	Y TAT	E GAA	F TTT
ACGC	AGGG	GTGC	L CTG	A G GCG GGA	CHG	E Gaa	A GCA
GTCGACCCACGCGTCCGCGGACGCGTGGGCGCGCGGGGGCCATCCAGACCCTGCGGAGAGGGGGGCCCGGAGGCGTCGCC	TTTG	ACAT	Q CAA	H CAT	CTT	N AAT	T I A F W Q E ACG ATT GCA TTT TGG CAG GAA
GTCG	3AGG	rgga	S AGC	K AAG	7 2 6 C	င Igc	T

128 588 148 648 168 708 188 768 208 828 885 964 1043 227 H CAT L TTG SECETCATEGEGECATECCTGTAGTCCCACCTACTTGGGAGGCTGAAGCAGGAGAATTGCTCGAACCTGGGAGGAGGAGG R AGA S TCT PCCT TITGGGAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAAACCCCGGTCTCTACTAAAAATTCAAAATTACCTA CTACCTTGTCATTTTGGTATAAGAAATTTGTGTTATTTGATAGGCCGGGCATGGTGGCTCATGCCTGTAATCCCAGCAC PCCT Q CAA R AGA Y TAT TGA * CAC F TTC GTA L CTA L TTA CCA > Д 工 R AGG I ATT TCTGGA G GGA PCCA ტ ഗ I ATC GCT N AAT A GCA CCA P CCA Ø щ S TCC CCIC GCT D GAT PCCA Ø ATT K AAG CCC E GAG TCT S TCA Н ഗ TTA TACT TACT V GTG ATG V GTT П Ξ GGA IATC H S TCT TCT S AGT Ċ ß ACT C TGT R AGG PCCT AAA H H 凶 CTG CIT ი მმმ AAA P CCG K AAA Ы × L CIT Y TAT R AGG L TIG TTTr Aga ſτι GGC Y TAC T ACC GTA E GAA P CCA ტ > ATG 9 99 0 Y TAT r CTG AGG S TCT Σ α GTT CIT V GTC TTT L TTG A GCG > ſτι GAT A GCC L TTA A GCC V GTG GGA Д G ATA G GGA S TCA A GCT AAA A GCA × AAA F TTT S TCT ACA E GAG 2 CAG Н GAG CAC I ATT င ဦင် E GAG E GAA 耳 R AGA PCCA 999 V GTT Y TAT PCCT ഗ

Fig. 22B

1596 1675 1754 1833 1912 1991 2070 2149 2228 2307 2386 GAAGAAGAAGACCACAAAAGACATGACTATCCAACTTTTTATGACAAACTGCAAGGAATAAAGGAAGAATAAGTCCATG CATAGGTAGAATTAGTGAACTCTTTGGATCCTTTGTACAGATAAAGGTTATAGATTTTCTTGTGTTGAATATATAAAAAG CAAGGATGTCTAACCATTAAGATTATCCAAAGTCAGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGA GGGATAGGTGGGCGGATCACCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGCAAAAACCCCGTCTCTACAAAA ATACAAAAGAAATTAGCCAGACATGATGGCGGGTGCCTCTAATCCCAGCTACTGGGGAGGCTGAGGTGGGAAATCGCT TGAACTCGGGAGGTGGAGGTTGTAGTGAGGCGAGATTGTGCCATTGCACTCCAACCTGGGCGACAGAGTGAGACTCCAT GATTTGCAAGGGTTGTTATGCTATCAAATAAACAGACCTAAAATCTAGGAGACACTAGAACTTAATGAAGTTGCCCCTG TAAACTTCATAAGTAATAGTTTGAGAATGTGGAAAAAGTAATTTGCTTTTCTGCTCTTAAAATAATATTGATTAATGTT TTACTGATTAGTAAATACTCCCATCTTCGTTGCAAAATTATCTCTCTGTATAACTACATATGATTATTTTGAAATTTGT TACTGTACCACAGAAGTTCTGTCTGCATCTTGGACCTGAACTTGATCATTATCAGCTTGATAAGAGACTTTTTTGACTCT ACCAGAAAAAAAAAAAAAAAAAAGGGCGGCCGC

Fig. 22C

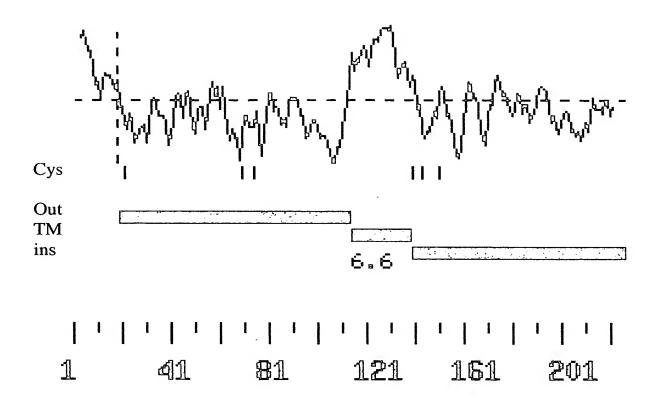


Fig. 22D

112	160	208	256	304	352
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TGAC CTC Leu	CTA	Q 4	TTA	TTC	ATG
CAGT' GTA Val	AGC Ser	AAA Lys	GAT Asp 55	GAG Glu	GAA Glu
saa (GTG Val	AGA Arg	AAA Lys	TTT Phe	GAG Glu 70	GAA Glu
GGAC CTG Leu 5	ACA Thr	TCA	AGA Arg	$\mathtt{T}\mathtt{A}\mathtt{T}$	AAC Asn 85
CTT	CAT His 20	GCA Ala	AAT Asn	TGC Cys	GAC Asp
CAC CTG Leu	CCT	TTT Phe 35	\mathtt{TAC}	GAG Glu	GGG Gly
CCTGGACCAC ATG TTT CTG Met Phe Leu 1	GTT Val	GTC Val	CTA Leu 50	AGA Arg	CTC Leu
CCT ATG Met 1	GCG Ala	GGA Gly	CTC Leu	GAG Glu 65	ATC Ile
CGTTCTCACC CCTGGACCAC GCTGGACT ATG TTT CTG Met Phe Leu 1	CTC Leu	GAA Glu	CGC Arg	CTG Leu	GAG Glu 80
CGTTCTCACC GCTGGACT	ACC Thr 15	CCA Pro	CGT Arg	AAC Asn	AGA Arg
	CTT Leu	GCC Ala 30	CAC His	GGG G1Y	GCC Ala
CGCT	AGA Arg	CAT His	ATG Met 45	CCC Pro	GAA Glu
GCGTCCGCTG GGCAGTTGCT	CCC Pro	GAA Glu	TTT Phe	ACT Thr 60	GAA Glu
	CTG Leu	TCT Ser	ATC Ile	TTC Phe	TAT Tyr 75
STCGACCCAC AAGTTTGTTT	CAG Gln 10	AAT Asn	AGC Ser	CTC Leu	AGT Ser
STCG	AGC Ser	AAG Lys 25	GCA	3AA 31u	rgr Cys

Fig. 22E

400	448	496	544	592	640
TCA Ser	TTA Leu 120	TAT Tyr	GCT Ala	ACC Thr	GGA Gly
AGA Arg	GGC T Gly L	TAC T Tyr T 135	TCA G Ser A	AGA A Arg T	GCG G Ala G
ACA Thr	ACT Thr	$_{\rm G1Y}$	TCT Ser 150	TTC Phe	GAC Asp
ACC Thr	CTG Leu	CTT Leu	$_{\rm G1Y}$	ATT Ile 165	GAG Glu
CCA Pro 100	CTT Leu	TTA Leu	CAA Gln	ATC Ile	TCA Ser 180
GGA Gly	GGC Gly 115	GGC Gly	TAT Tyr	TCC	TCC
AAA Lys	ATG Met	TTT Phe 130	CCA Pro	CCG Pro	TCA
GTC Val	GTT Val	GTT Val	CAG Gln 145	ACA Thr	TCG
TCA Ser	GAT Asp	GTT Val	AGG Arg	CAC His 160	CCA
TAT TYr 95	ATT Ile	TTG Leu	AAT Asn	AGG Arg	TCT Ser 175
GAA Glu	AAA Lys 110	TTC	TGT Cys	ACC Thr	TTG
CGG Arg	GAG Glu	GTA Val 125	AAG Lys	AGG Arg	GTC Val
TGG Trp	AAA Lys	66A G1Y	ACC Thr 140	AGA Arg	GCT Ala
TTC Phe	AAC Asn	GCT Ala	ATC Ile	ACA Thr 155	GAA Glu
ACA Thr 90	GTC Val	GCG Ala	TGT Cys	TAC Tyr	GAG Glu 170
ATC Ile	GAT ASP 105	ATT Ile	CTG Leu	GTC Val	CAT His

Fig. 22F

Fig. 22G

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CACTTGGAAA	AGTGCTTGCC	CACTTGGAAA AGTGCTTGCC ATGCAAATAG AAGGACAGGA GTTCAATCCT CATTACCCAC	AAGGACAGGA	GTTCAATCCT	CATTACCCAC	1683
ATTTGAAACA	AATAACAAGA	ATTTGAAACA AATAACAAGA AAAACAAACC AAAAAACCAA AACAAACAAA	AAAAAACCAA	AACAAACAAA	ATCTTGAGAA	1743
CTTGAGTGAA	TACCGGTAAC	CTTGAGTGAA TACCGGTAAC CTCAGGGCTA GGCACTGTAA CTGAATCAGG AGCCTCCAGA	GGCACTGTAA	CTGAATCAGG	AGCCTCCAGA	1803
TCCAGGGAAA	CGCTGTCTCA	TCCAGGGAAA CGCTGTCTCA ACAAATAAAT AAATAAGTAA GTCAGTGAGG TGGTCTTTAA	AAATAAGTAA	GTCAGTGAGG	TGGTCTTTAA	1863
ACCCAGCACT	TGAGAGCCAA	ACCCAGCACT TGAGAGCCAA AGGCAGGCAG AGCTCAGTGA GTTGGAGACC AGCCTGGTCT	AGCTCAGTGA	GTTGGAGACC	AGCCTGGTCT	1923
ACAAAGCAAG	ACAAAGCAAG TTCTAAGGGA	GCCAGGGCAC AGAGAAACCC TGTCTGAAGG AAAAAAAAA	AGAGAAACCC	TGTCTGAAGG	AAAAAAAAA	1983
AAAAAAAA GGCGGCCGC	292299299					2002

Fig. 22H

rh	\vdash	PACTCAGCCAGG	
	Н	ATGTTTACGCTTCTGGTTCTACTCAGCCAACTGCCCACAGTTACCCTGGG 50	
	51	GGTTCCTCATACAAGAAGCCTAAAGAATTCTGAACATGCCCCAGAAG 97	
	51		
r h	9 8	GAGTCTTTGCATCAAAAAAAGCAGCAAGCATCTTTATGCACCGTCGCCTC 147	
_	101		
**	148	CTATACAATAGATTTGATTTAGAACTCTTCACTCCCGGGAACCTGGAGAG 197	
	151		
r h	198	AGAGTGCTATGAGGAGTTCTGTAGTTATGAAGAAGCCAGAGAGATCCTCG 247	
 .	201		

Fig. 22I

ሪ ካ	248		
hr!	251		
רח	298	CCAACCACAAGATCAGATGTCAACAAAGAGAAAATTGATGTTATGGGCCT 347	
۲	301	CCAACCACAAAATCAGATGGCAACAGAGAAAAAAAAAATAGATGTTATGGGCCT 350	
ሪ ካ	348	TOTGACTGGCTTAATTGCGGCTGGAGTATTCTTGGTTGTTTTTGGCTTAC 397	
! ! '	351		
۲ħ	398	TTGGTTACTATCTGTGTATCACCAAGTGTAATAGGCAGCCATATCAAGGT 447	
₩.	401		
۲ħ	448		
hri	451	TCTTCAGCCGTCTATGAAAGGGGGAGGCACACTCCCTCCATCATTT 497	

Fig. 22J

4.5	498 CAGAACCCATGAGGAAGCTGTCTTGTCTCCATCGTCATCCTCAGAGG 544	
4		
5,4	545 ACGCGGGACTACCTTCCTATGAACAGGCAGTAGCTCTGACCAGAAACAC 594	
54	548 ATGCAGGATTACCTTCTTATGAACAGGCAGTGGCGCTGACCAGAAACAC 597	
Ω	595 AGTGTCTCACCACCTCCATATCCTGGGCCAGCAAAAGGATTTAGGGT 644	
56		
9	15 ATTTAAAAAGTCAATGTCACTCCCATCTCAC 675	
64		

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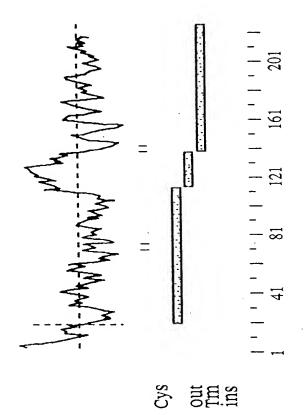
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Fig. 22K

ტ	Н	MFLLLVVLSQLPRLTLAVPH.TRSLKNSEHAPEGVFASKKAASIFMHRRL 49	
Ħ	Н		
ര	20	LYNRFDLELFTPGNLERECYEEFCSYEEAREILGDNEEMITFWREYSVKG 99	
н	51		0
ტ	100	PTTRSDVNKEKIDVMGLLTGLIAAGVFLVVFGLLGYYLCITKCNRQPYQG 149	0
Ħ	101	: :	0
_O	150	SSAVYTRRTRHTPSIIFRTHEEAVLSP.SSSSEDAGLPSYEQAVALTRKH 198	œ
Ħ	151		Q
ტ	199	SVSPPPPYPGPAKGFRVFKKSMSLPSH 225	
Ħ	200	SVSPPPPYPGHTKGFRVFKKSMSLPSH 226	

Fig. 22I





7.9	11 146	31	51 266	71 326	91 386	111 446
CTGGA	CIC	C TGC	K AAG	S AGC	N AAT	E GAA
3ACC:	9	P CCC	K AAG	S TCC	ပ ၁၅ ၁၅	S AGC
SCAGO	L CTG (T ACG	A GCA	E GAG	E GAA	K AAG
0000	A GCG (P CCG	₁ ACC	Y TAC	T T T C	L CTG
SCACO	A GCC 0	K AAG	D GAC	K AAG	D GAC	Q CAG
GCAG	R CGG G	K AAG	V GTG	S	S AGC	CIG
,CGG2	R CGC C	A GCC	M ATG	$^{ m L}_{ m CTG}$	S AGC	W TGG
3AGGC	P CCG O	A GCC	ტ ტტტ	T ACG	E GAG	W TGG
) (000)	L CTG 0	E GAG	Q CAG	K AAG	၁ ဥပ	A GCC
) 	R CGC 0	P CCG	N AAC	E GAA	L CTG	E GAG
TGGG	_	A GCG	F TTT	E GAG		L CTG
, , , ,	CC A	CCC	K AAG	W TGG	EGAG	H CAC
GGAG	יכככפ	P	D GAC	A GCT	L CTG	E GAG
GCTO	GCTZ	CIG	, V	T Z ACG G	I L ATC CTG	E E GAG GAG
SCGC SCGC SCGC SCGC SCGC SCGC SCGC SCGC	CAGC	L CTG	L CTG	N AAC	E GAG	Q CAG
3000g	ອນນຸນ	L CTG	ტ ტტ	G G G G	L CTG	A GCG
ANGG	TCT	L CTG	R CGG	9 96C	L CTG	E GAG G
GCAC	TGCG	L CTT	C TGC	ပ ပ္ပ	R CGC	L CTA
ACGCGTCCGCACANGGCCGGCGGCTGGGAAGCGGGTGGG	M GCTCCGGCTGCGTCTTCCCGCAGCGCTACCCGCC ATG	P CCG	R CGG	F TTT G	I ATT	M ATG
ACG	GCTC	L CTG	H	N AAC	e Gag	Q CAG

79

Fig. 23A

131 506

G GGA

ССА ССА

S TCT

C TGC

C TGC

V GTG

K AAA

r CTG

V K T GTG AAG ACA

C TGT

F TTT

W TGG

E GAG

F TTC

L TTA

D GAC

P. CCT

Y TAT

151	171	191	211	231	251	271	291
566	626	686	746	806	866	926	986
N	9	E	N	V	N	PCCA	V
AAT	9	GAG	AAC	GTG	AAC		GTG
ი	M	N	TACC	D	A	9	D
მიმ	ATG	AAC		GAT	GCC	9	GAT
S	H	R	L	V	N	E	A
AGC	CAC	CGG	CTG	GTG	AAC	GAA	GCA
ာ	C	CTC	ი	C	K	ი	C
ညီ	TGC		ემ	TGT	AAG	მი	TGT
CCC	R	s	s	A	C	T	Q
	CGG	TCG	TCG	GCC	TGT	ACA	CAG
R	C	S	C	9	F	C	G
AGG	FIGC	AGC	TGC	99C		FigC	GGA
Q CAG	S TCC	F	T ACG	E GAG	Q CAG	9 990	H
S		Y	K	D	A	V	E
TCC	GGG	TAC	AAG	GAC	GCG	GTG	GAG
G	D	ტ	ပ	L	A	C	R
GGA	GAC	ტტე	၂၉୯	CTG	GCT	TGT	AGG
ი ი	g GGC	GAC	S	< GTG	S AGC	S AGC	A GCG
Q CAG	Q CAG	MATG	E GAG	T G G	C TGC	S TCC	$^{ m Y}$
S T D D	R AGA	ပ ပည် ပည်	D GAC	9 9 0 0	GCC CCC	D GAC	g GGC
A	S	D	C	√	PCCT	C	S
GCA	AGC	GAC	TGT	GTG		TGT	TCT
CTC	ი	T	A	E	P	E	I
	მიმ	ACT	GCC	GAA	CCG	GAG	ATC
C TGT	D GAT	n D D	T ACA	C TGT	E GAG	E GAA	$_{\rm TGT}^{\rm C}$
D	G	CTG	ာ	E	A	ာ	E
GAC	GGA		ညီဝင်	GAG	GCC	အ	GAG
CCC	S	P	I	9	A	T	K
	AGC	CCG	ATC	99C	GCG	ACG	AAA
G GGT	၁ ၁၅ ၁၅	9 96C	S AGC	C TGC	C TGT	Y	C TGT
$^{ m Y}$	H	Q	H	D	E	S	N
	CAC	CAG	CAC	GAC	GAG	TCC	AAC
TACC	ი ი ი	$^{ m Y}$	T ACC	R AGA	D GAC	ტ ტტ	GGA

Fig. 23B

D E C S GAC GAG TGC TCA (S TCA	L A CTA GCA		E GAA	A AAA	T ACC	C TGT	V GTG	R AGG	K AAA	N AAC	E GAA	N AAC	n TgC	$^{ m Y}$	N AAT	ACT	311 1046
T.	, C	P G S Y V C CCA GGG AGC TAC GTC TGT	C TGT	V GTG	C TGT	PCCT	D GAC	ტ ეტ	FTTC	E GAA	E GAA	T ACG	E GAA	D GAT	GCC GCC	C TGT	V GTG	331 1106
G	E GAG	A E A E GCA GAG GCT GAA	E GAA	A GCC	T ACA	E GAA	G GGA	E GAA	S AGC	PCCG	T ACA	Q CAG	L CTG	P CCC	S TCC	R CGC	E GAA	351 1166
																		354 1175
[A	ÇÇ	тGTGCCGGACTTACCCTTTAAATTATTC	AATT	ATTC	AGAA	GGAT	AGAAGGATGTCCCGTGGAAAATGTGGCCCTGAGGATGCCGTCTCCTGCAGT	CGGTC	3GAA?	AATGI	rggC(CCTG2	4GGA1	ישככני	3TCT(CCTG	CAGT	1254
ch.	GA(GGACAGCGGCGGGGAGAGGCTGCCTCTCTAACGGTTGATTCTCATTTGTCCCTTAAACAGCTGCATTTCTTGGTTG	TGCC	TGCI	CTCT	AACG	GTTG	BATTC	CTCAI	PTTG	rccc	rtaa <i>l</i>	ACAGO	TGCZ	ATTT(CTTG(GTTG	1333
\mathcal{L})TT(ТТСТТАААСАGACTTGTATATTTTGATA	TTTT	GATA	CAGT	TCTI	CAGTTCTTTGTAAAAATTGACCATTGTAGGTAATCAAAAAAAA	ata.	AAATI	rgaco	CATT	3TAG(3TAA1	CAA7	AAAA	AAAA	AAAA	1412
ည္က	GCJ	AAAAAGGGCGGCCGCTAGAC	<i>.</i>															1432

Fig. 23C

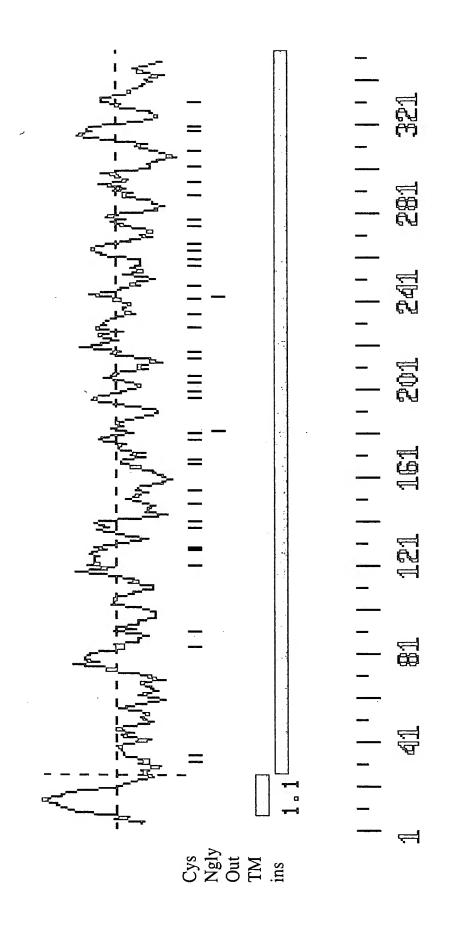


Fig. 23D

н : н с н с н с н с н с н с н с н с н с	30 30 30 30
SKYJ SKYJ SKYJ CSGJ 1, CSGJ ECT ECT ECT	28 HTA' OLP!
60 SKSL SKTL SKTL SCKT SCKT SCKT	340 GRGKS : · · GESPT
AWEH AWEH AWEH 130 130 120 200 CDES CDES KGPZ KGPZ KGPZ KGPZ	70 34 RSGI : TEGI
GACC CACC CACC CACC CTA CTA CTA CTA CTA C	2 SRR:
SO NFGG NFGG NFGG NFGG NFGG NFGG NFGG NFG	0 C-TL PPAE
PARK 1	330 330 RCLC: :.
10 20 30 40 50 60	220 230 240 250 260 270 280 10 290 310 320 330 340 YSKQKGECADIDECSLETKVCKKENENCYNTPGSFVCVCPEGFEE-DRRCLC-TDSRRRSGRGKSHTATL :.:::::::::::::::::::::::::::::::
40 10 10 10 10 10 10 10 10 10 1	EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE EE
VDKFI VDKFI 40 110 110 110 110 IDCMI IDCMI 180 250 ENVNC ENVNC	250 320 VCPE(:::: VCPD(320
RALL WLQI PLC: PLC: PLC: PLC: PLC: PLC: PLC: PLC: PLC: PLC:	FVC
30 CORC : . : : CHRC : : : : SYKG SYKG : : . : SYQG) rpgs rpgs
100 CHVG CHVG CHVG TPPC TPPC TPPC TPPC TPPC TPPC TPPC TPP	240 310 CYNT :::: CYNT 310
ASRK LEQH LEQH LEAQ SSCQ SSCR CAAE	SNEN ::: CNEN
20 3 APEA 3 APEA 0 NOLL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 CKKI : .
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	230 300 312 300 300
LLLLI LLLLI LLLLI LLLLI CDGI CCGGI CSGI CSGI CSGI CSGI CSGI	CSLE .::.
10 :.::::::::::::::::::::::::::::::::::) (0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
AAVGL.: AALGL. 10 80 EIMEG. 80 EILEG. 80 80 EILEG. 150 150 150 150 CEVGW. ::::::::::::::::::::::::::::::::::::	220 290 ECADI: .::. QCADV: 290
PPA : : : : : : : : : : : : :	OKG.
7 4 1	∞
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Fig. 23E

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30 40 50 CCGGTGGGCGAGACT-CCACA	:::: :::::::::::::::::::::::::::::::::		GCCG-GTCG-CCCGCGAGTGC-ACCCGCCATGCACCTGCCGC-CCGCTGCCGCAG::::::::::::::::::::::::::::	180 TGCCA ::::: TGCCA	200 240 250 250 240 250 250 240 250 350 240 250 350 340 250 350 340 350 350 340 350 350 340 350 350 350 350 350 350 350 350 350 35
5 CT-	:: \CGG	110	7.1. .:	AATG	TCG.
GAG2	AGC7	09	CCGC :::	GACP SACG	200 AATT' AACT' 270
) AGGC	3AGC		.:: 3606	170 4GCC(::::	240 3AAG2 :::
40 CGGA	3000	100	11GC	GGA7 .::: AGA7	CAGG :-: AAAG
IGGG	. : : 3AGG	20	2ACC1 : . : : : 3GCC1 120	TCCC :: 3CCA	190 0GGCC2 1 : : 0
30 CCGG	:::		: ATG(: : : ATG(160 GCCT(:::	230 ACAC(::::
1	; CGGC	90	0000	130 140 150 150 160 170 TGCTGCTGCTGCCTCCCGCGCGCGTGGCCTCCCGGAAGCCGACAA! : ::::::::::::::::::::::::::::::::::	180 GGCCA :: .
GCGCTTG	: : rggg	40	-ACCC(:::: 110	30 36CG 3.3 36CC	20 3ATG :::
GCT	SCGGGTG		11GC :: CGC	150 CCGCG :::::	220 GGGGA' :::::
ეე 	:: 3AGC	80	CGAG : :: C-AG	CTC CTC CTC	ACCA: :: : ACCA: ACCA: 240
	TGG	30	CCGC :::: CCGC 100	140 GCCGC :::::	210 TTCAP :::::
20 2660	: : : : : : : : : : : : : : : : : : :		10-01 11-11 11-11-11	1 3CTG ::::	2 \AGT
)- 09:	:: GCG	20	G-GT(: :: GCGT(90	GCTC ::::	GACZ 1330
AACG	25525255225	7	3000 30106 90106	130 TGCT : :: TTCT	200 GGTG ::::
10 GG	.: ANG)5 5 5 5 5 7 7 7	GCTAC:	GCT(:::
- 999	GCAC	0 10	T-CT . :: AGCT 80	 	190 GGTGCCGGGCGCT ::::::::: GGTGCCGGGGGCT
AGCC	: :::	1 60	CAGTT- :.: . CTGGAG 80	CHO!	190 GCCC GCCC
10 20 CGTAGCCGGGGGAACGGC-CGGC-			C GCAGTT-CTC-TGCCG-GTCG-CCCGCGAGTGC-ACCCGCCATGCACCTGCCGC-CCGCTGCCGCAG : ::: :::::::::::::::::::::::::::::::	120 170 180 C TCGGGCTGCTACTGCTGCTGCCGCCTCCCGCGCGCGCGTGGCCTCCCGGAAGCCGACAATGTGCCAA : ::::: :::::::::::::::::::::::::::	
ن ا	H A		о п п	O H	C GA(H CC(210

Fig. 23F

260 270 320 320 300 310 320 320 C GGCAACACGGGGGAGAAGAGAGTCTGTCCAAGTACGAATTCAGTGAGATTCGGCTCCTGGAGATTA ::::::::::::::::::::::::::::::	330 340 360 370 390 390 390 390 390 390 390 390 390 39	400 410 420 430 440 450 460 C AGGCCTGGTGGCAGACACTGAAGAAGGAGTGCCCTAACTTTGAGTGGTTCTGTGTACACACAC	470 480 490 500 510 520 530 AGCATGCTGTCTTCCAGGCACCTATGGCCAGGACTGTCAGGATGCCAGGGTCTCAGAGGCCTTGT :::::::::::::::::::::::::::::::
260 C GGCAACAC :::::: H GGGAACAC	330 C TGGAGGGC ::::::: H TGGAGGGG	40 C AGGCCTGG ::::::: H AGGCCTGG	47 C AGCATGCT :::::: H AGTGTGCT 490

Fig. 23G

600 GGAT ::.: GGGT	670 GCTT :::: GCAT	740 CGAA ::: TGAA	810 TGCA ::::
6 CGTAG .:.:	6 2ACAG 3 : : : : 2ACAG	7 .GTGC ::: .GTGT	8 00001
0 GTCAC(: ::: GCCAC/ 620	0 3ACCC 3ACCC 690	0 GTGGA(: :: GGCGA(760	0 CCCCA(: ::. CGCCT(830
590 CAGTG' : . : : :	660 ACGAG :::::	730 CTGTG' ::::: CTGCG	800 GAGACC :::::
CTGC::::	3AGGA ::: ?CGGA 680	AAAGG : AGAGA 750	2AGCA 7GGCC 820
580 GGGT(::::	650 TGCTC ::: CGCTC	720 CAAC? :::::	790 TGTG(::::
GCGAC ::::: GCGAC 600	CAGCT::::	CCAAC:::::::::::::::::::::::::::::::::	: . : : : :
550 590 600 CTGCGACGGAGATGGCAGCACAGGCGACGGGTCCTGCCAGTGTCACGTAGGAT :::::::::::::::::::::::::::::::	620 630 640 650 670 670 670 670 670 670 670 670 670 67	690 730 740 GAGTCCTGCAAGACATGCTCAGGTCCAACCAACAAAGGCTGTGTGGAGTGCGAA :::::::::::::::::::::::::::::::::::	760 770 780 790 800 810 GTGGAGGATGCCTGTGGATGTTGACGAGTGTGCAGCAGCAGAGACCCCACCCTGCA : :::::::::::::::::::::::::::::::::::
:::: ::::: ::AGA	 	06.00 0.00 0.00 0.00	.:::: .:::: .:::::::::::::::::::::::::
560 TGGCAGC ::::::: TGGGAGC	630 ATGGATG :::::: ATGGACG 660	700 AGACATG(::::::: AGACGTG(730	770 CTGTGTG ::::::: CTGTGTG
5, AGAT(::::	G. TGCA' TGCA'	7(GCAA(::::	7, :19CC' :::
3ACGG : : : AGCGG) rcgac' ::: ?TGAC' 650) GTCCT(::::: GTCCT() 3AGGA 3AGGG 790
550 CTGCG :::::	620 TGTAT' :: : TGCAC'	690 ATGAG : ::: ACGAG	760 TGTGG : :
:::: :::::	:GCTG::::::::::::::::::::::::::::::::::	:TGTG ::::: :TGTG	CACG
540 3AATG :::::	610 3GGCC :: ::	680 CAGCC : : : : :	750 CTGGA :::::
540 550 600 C AGCGGGAATGGCCACTGCGAGATGGCAGCAGCAGGCGACGGGTCCTGCCAGTGTCACGTAGGAT :::::::::::::::::::::::::::::::	610 620 630 640 650 660 670 C ACAAGGGCCGCTGTATTCGACTGCATGGATGCTACTTCAGCTTGCTGAGGAACGAGACCCACAGCTT :::::::::::::::::::::::::::::::::::	680 730 740 C CTGCACAGCCTGTGATGAGCCTGCAAGACATGCTCAAGGTCCAACAAAAGGCTGTGTGGAGTGCGAA :::::::::::::::::::::::::::::::::	750 760 810 C GTGGGCTGGACACGTGTGGATGTTGACGAGTGTGCAGCAGAGACCCCACCCTGCA ::::::::::::::::::::::::::::::::::::
O H	O H .	O H	O H

Fig. 23H

820 830 840 850 860 870 880 880 880 880 880 880 880 880 88	890 910 920 930 950 950 940 950 950 940 950 950 940 950 950 950 940 950 950 940 950 950 950 950 950 950 950 950 950 95	960 1010 1020 C GCAGATATAGAATGCTCATTAGAAACAAAGGTGTGTAAAAGGAAAATGAGAACTGCTACAATACTC ::::::::::::::::::::::::::::	1030 1040 1050 1060 1070 1080 1090 C CAGGGAGCTTTGTTCGAGGAAGACAGAGATGCTTGTGTACAGACAG
860 GTGAAGAGTGTG : :::::::: GCGAAGAGTGTG	930 TGGCTACAGCA/ :::::::: TGGCTACGCGA(0	1000 AAGGAAAATGA(: . : : : : : : : AGGAAAAACGA/ 0 1030	1070 AGACAGAAGATGCT : ::::::: A-ACGGAAGATGCC 1090
850 GCTCCTACACATG' :::::::::::: GCTCCTACACGTG' 870 870	920 AGAGTGTATCTCT(:::::::::: AGAGTGTATCTCT(940	990 AAAGGTGTGTAAGA ::::: AAAAACCTGTGTGA 1010	1060 GGTTTCGAGGAAG ::::::::: GGCTTCGAAGAA- 1080
840 AATGTCAACGG :::::::::::::::::::::::::::::::::	910 ::::::::::::::::::::::::::::::::::::	980 CATTAGAAACAA ::::::::: CACTAGCAGAAA	1050 GTGTCCGGAAGG :::::::::: GTGTCCTGACGG
830 AGTACTGTGAA :::::::::	900 AAAAGGCCCAG : : : : : : : : : : : : : : : : : :	970 3ATGAATGCTC :::::::: 3ACGAGTGCTC 990	1040 TTGTCTGCGTG . :::: ::: ACGTCTGTGTG
820 C GCAATGTACAGTAC :::::::: H GCGCTGCGCAGTTC 840	890 C CTGCACAGGAAAAG :::::::::: H CTGCACAGGGGAAG	960 C GCAGATATAGATGA :::::::::::: H GCAGATGTGGACGA 980	1030 C CAGGGAGCTTTGTC ::::::::::: H CAGGGAGCTACGTC 1050

Fig. 231

1100 1110 1150 1150 1150 1150 1150 1150	1230 1240 1250 1260 1270 1280 1290 C ATCAACCCCATTTCTCCAGGAAGTTTTGG-AGGAAGCTGCCTGCTTTGAAACAGTAGTACTCACTT . : : : : : : : : : : : : : : : : : :	 AGAC 30
1140 :: ::::: :CGCGAAGA) 1210 ATCCTATAGAAA :::::::::::::::::::::::::::::::	1280 ::::::::::::::::::::::::::::::::::::	CA : . \GGGCGGCCGCT .420
1130 **: : : : : : : : : : : : : : : : :	1270 .:::::::: .GAGAGGCTGCC 270 1340 TTAAACAGATT ::::::::::::::::::::::::::::::::::	 AAAAAAAAAA 1410
1120 ::::::::: AGCCCGACACA 10 1150 1190 TTTTAAGTTAT	1260 3TTTTGG-AGG2 130 1260 1330 1330 1330) ACCAGGAA : ::.:: ATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
1110 ::::::::: CAGAGGAAAGT CAGAAGGAGAAA(30 1140 1180 GACTCTCACCCT' ::::::::::::::::::::::::::::::::::	1250 1250 1320 1320 1320 1320 1320	0 ATTGAAGGTCACCAGGAA :::::::::: ATTGTAGGTAATCAAAAA 1390
1100 1110 1120 1130 1140 c AAGGCGAAGTGCAGAGGAAAGTCCC-ACACAGCCACCCTCCCATGAGGATT' :::::::::::::::::::::::::::::::::::	1230 1240 C ATCAACCCATTT : : : : H TGCCGTCTC 1240 1310 C GGCCCTTTAAAAC : :::::::: H GTCCCTTAAACA-(1370 1380 1390 C ATAAAATTGATCATTGAAGGTCACCAGGAA

Fig. 23J

C n	T 2 &	16 220	36	56 340	76 400	96 460	116	136 580
D LO	.I.)	Q CAG	CGC	PCCT	CGG	V GTG	A T G	GGC
rgca6	J S S	A GCC (FTTT	I ATC	PCCG	G GGA	A GCG	Y TAT
CAGCT	JACC.	L CTG (A GCT	T ACC	S TCT	ጸ ርG	P CCA	I ATC
GTCTC		V GTC (R CGC	L CTC	G GGC	A GCG	Y TAC	G GGT
CGCAC	5 5 5	L CTG (D GAC	A GCC	L CTG	Q GTG	A GCG	S TCA
CCGC) 1.5 1.5	A GCC (E GAG	9 9	V GTG	L CTG	PCCT	D GAC
GTCT	CGCA	A GCA (S TCA	9 990 0	A GCT	V GTG	L CTG	N AAC
CGCA	AC'I''I'	L CTG (S AGC	L CTC	R CGG	E GAG	A GCA	CCC
CTCG	ACAA	L CTG	D GAC	V GTG	GG R	A GCA	V GTG	. CGC
CACG	9099	P CCC	G GGA	9 990	S AGC	E GAG	R CGC	L CTG
TCCT	AGGA	L	E GAA	Q CAG	P CCG	R CGG	F TTC	E GAG
CCTC		F TTC (L CTG	L	P CCG	9 990	R CGG	S AGC
CCAG	ACCC	L CTG '	V GTT	P CCA C	P CCA	R CGG ($^{ m Y}$	LCTG
3900	3GAG	Q CAG (D GAT	A GCG	R CGG	S TCC	A GCC	A GCG
CTGC	CGGA(A GCC (A GCA	D GAC	L CTG	L	E GAG	L CTG
CGTC	CACC	M ATG ($_{ m TTA}$	9 9	Y TAC	F	N AAC	S TCC
CGTC			A GCT	A GCG	H CAC	T ACT	V GTG	V GTC
GTCGACCCACGCGTCCGTCCTGCGGCCCCCAGCCTCTCCTCACGCTCGCGCAGTCTCCGCCGCAGTCTCAGCTGCAGCTGCAGCTGCAGCTGCAGCTGCAGCTG	CAGGACTGAGCCGTGCACCCGGAGGAGCCCCCGGAGGAGGCGACAAAC'I''I'CGCAG'I'GCCGCGACCCAACCCTAGCCCT	GGGTAGCCTGCAGC	A GCA	I ATC	V GTC	¥ TGG	K AAG	D GAC
3ACC(3ACT(PAGCC	P CCT	GGC CGC	H CAC	K AAG	√ GTC	T ACC
GTC	CAG	GGG1	GCT	V GTG	C TGC	V GTC	R CGC	CTC

Fig. 24A

156	176	196	216	236	256	276	296
640	700	760	820	880	940	1000	1060
	Q CAG	$^{ m Y}$	CCC	N AAC	N AAT	Y TAC	G GGT
K	A	A	Y	R	L	A	D
AAA	GCC	GCC	TAT	CGG	CTA	GCG	GAT
V	ტ	A	R	V	D	R	WTGG
GTC	ტტ	GCC	AGG	GTC	GAC	CGG	
K	S	Y	V	ტ	E	A	A
AAG	TCT	TAT	GTG	ტტტ	GAA	GCA	GCC
V	F	L	T	CCC	A	e	A
GTC	TTT	CIC	ACC		GCT	Gaa	GCA
E	S	Q	Q	F	Y	E	Y
GAG	TCC	CAG	CAG		TAT	GAG	TAT
V	TTC	E	D	9	C	L	L
GTG	TTC	GAG	GAT	9	TGT	TTG	CTG
A GCT	A GCT	PCCG	S TCG	D GAT	YTAC	T ACA	Q CAA
D	Y	T	L	M	V	L	G
GAC	TAT	ACC	CTG	ATG	GTG	CTG	GGC
S	R	A	$\overline{\mathbb{W}}$	D	D	K	T
AGC	CGC	GCC		GAC	GAT	AAG	ACG
S	A	I	9	G	Y	E	T
AGC	GCC	ATC	990	GGA	TAT	GAG	ACC
D GAC	S TCT	H CAC	A GCT	YTAC	CTC	PCCA	A GCC
D	9	A	D	C	D	PCCT	I
GAT	990	GCC	GAT	TGT	GAC		ATT
I	e	G	C	A	D	D	E
ATC	Gag	GGA	TGT	GCC	GAT	GAC	GAG
G	R	I	Q	E	PCCG	G	A
GGC	CGA	ATT	CAA	GAG		GGT	GCA
H	Y	R	E	R	D	L	G
CAC	TAC	CGC	GAG	CGA	GAC	CTG	GGT
Q	CTC	A	Y	P	V	F	R
CAG		GCC	TAT	CCA	GTG	TTC	CGG
V	F	C	9	ACC	V	L	E
GTC	TTT	TGT	990		GTG	CTG	GAG
E	V	A	ტ	Q	G	E	Q
GAG	GTC	GCC	ტტტ	CAG	GGT	GAA	CAG
C	V	E	CTT	I	Y	G	C
TGT	GTC	GAG		ATC	TAT	GGA	TGC

Fig. 24B

316 336 1180 376 1300 416 1420 436 1480 356 1240 396 1360 456 540 V GTC P CCC S TCG G GGA A GCC G GGT T ACA E GAA D GAT I ATC D GAC E GAA E GAA $^{\mathrm{F}}$ G GGA E GAA CCC Q CAG E GAG CTC R CGA S TCT G GGA F TTT Y TAC $_{\mathrm{TTC}}$ A GCC PCCT D GAC GAA L TTG F 闰 R CGC L CTG L CTC C TGC PCCA E GAG L CTA A GCA N AAC V GTG Y TAC Q CAG MATG K AAG TACT CFC S AGT K AAG V GTC S TCC L CTG IATC T ACG GGT G 9 9 V GTC N AAC A GCC E GAA CCC R AGG GAA 闰 D GAT $^{\mathrm{F}}$ E GAG GAG G GGT PCCA I ATC P CCT 闰 A GCT PCCT R CGC N AAC L CTG S TCC A GCC GAA 闰 LCTA L TTG Y TAC E GAG S AGC S TCC T ACC S TCA W TGG 9 9 9 9 H A GCC E GAG I ATC A GCA F ი მემ G GG K AAG E GAG T ACA A GCC G GGG PCCA PCCA G GGT AAT PCCT V GTG G GGG D GAC T ACG Z S AGC C TGT CCC I ATC CCC T ACA R CGT E ာ ညီ R CGC F TTC A GCC V GTC S TCC P PCCA . CAC Q CAG 9 99 9 S TCT I ATC E GAA TACT GTA > D GAC S AGC TACT PCCT A GCT SAGT S TCC MATG L CTG P CCC Q CAG Q CAG E GAG E GAG S AGC s TCC 9 9 9 9 T ACA N AAC A GCC LCTA TACA G GGA CAA

Fig. 24C

536 1780 476 1600 496 1660 516 1720 556 1840 616 2020 576 900 596 960 D GAT CCC Q CAG H CAT 9 966 P CCA G GGA PCCT GAG CIC L CTG V GTC S TCA S TCT S TCT L 团 V GTG V GTC S TCT R AGG PCCA L CTA L CTG N AAT E GAG A GCC A GCA P CCA S TCC E. GAG GAT S TCC Д E GAG E GAG R AGG PCCT A GCA E GAA PCCT PCCT E GAG A GCA R AGG P CCT L CTA G GGT A GCC S TCT E GAA 9 9 9 0 P CCA S TCC N AAC CCC G GGT GGT G A GCT E GAA . P CCG A GCG R AGG GAG A GCC T ACT 闰 Q CAG E GAA S AGC E GAA E GAG A GCA GAG TCC S 闰 E GAG S AGC s TCC S TCA R AGG E GAG S AGC CTG П E GAG L CTC L CTC E GAG ი მმმ GAG CCC GGA O 闰 K AAA E GAG S TCA G GGA TACT V GTG R AGG T ACA E GAG S AGC K AAG D GAT E GAG E GAG T ACC P CCC E GAA E GAG CCC PCCT CIG R AGA EGAG G GGT E GAA W TGG Q CAG E GAG T ACT A GCA L S AGC D GAT A GCA A GCC E GAG PCCA E GAG EGAG PCCT E GAA W TGG S TCA A GCA T ACT V GTT G GGA GCC ø YTAT L CTG A GCA P CCA PCCT L CTG R CGG R CGA K AAA E GAG A GCT G GGT TACT T ACA P CCA P CCT E GAG E 3AG TACT PCCT S TCC A GCC GGA V

Fig. 24D

ACT GCC CCA GCA GGG ACC TCA GTG CAG GCC CAG CCA GTG CTG CCC ACT GAC AGC CGA GGT GTG CCC ACT GAC AGC CGA GGT GGA GTG GCC GTG GTC CCC GCA TCA GGT AAT TCT GCC CAA GGC TCA ACT C
F P L Q L W V T TTC CCC CTG CAG CTC TGG GTC ACC
CAAACTCTCCTGTCCTTTGCCTTCATTCTTTACCCCACCTCTACCTATGGG
CTCCAATCTCGGATATCCACCTTGTGGGTATCTCAGCTCTCCGCGTCTTTACCCTGTGATCCCAGCCCCGCCACTGAC
ATCTGTGACCCTTCCCTGCCATTGGGCCCCTCCACCTGTGGCTCACATCTCGCCAGCCCCCACAGAGCATCCTCAGGCCT
TCCAAGGGTCCTCATCACCTATTGCAGCCTTCAGGGCTCGGCCTATTTTCCACTACTCCCTTCATCCGCCTGTGTGTG
FICCCCTTTAGCTGCCTCCTATTGATCTCAGGGAAGCCTGGGAGTCCCTTCTCACCCCTCAACCTCCGGAGTCCAGGAG
ACCCGTACCCCCACAGAGCCTTAAGCAACTACTTCTGTGAAGTATTTTTTGACTGTTTCATGGAAAACAAGCCTTGGA
.amaaanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

Fig. 24E

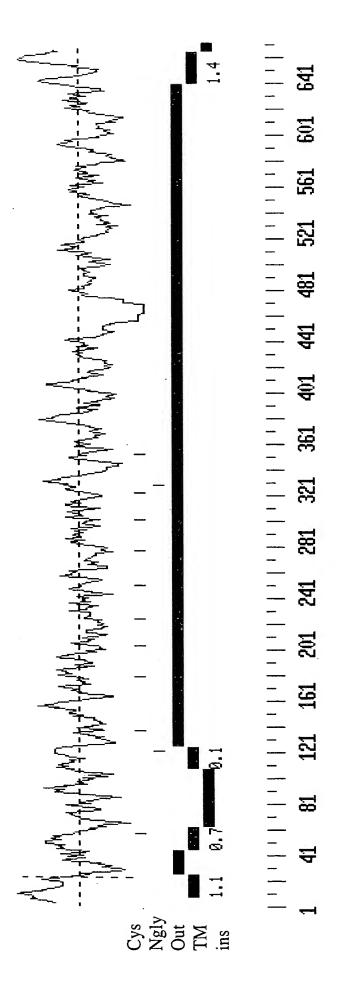


Fig. 24F

70 PPSRRA ::::: PPSRRA 70	140 IYRCEVQ :::::: IYRCEVQ 140	210 AGWLSD ::	280 AYCQER :::::: AYCQER 220	350 HSRFNV :::::: HSRFNV 290
60 ::::::::::::::::::::::::::::::::::::	130 SELRPNDSGI ::::::::::::: SELRPNDSGI 130	200 AAYLGGYEQCD	270 PEKLTLEEAR ::::::::::: PEKLTLEEAR 210	340 JFPNQTGFPNK ::::::::::::::::::::::::::::::::::::
20	90 110 140 REAEVLVARGVRVKVNEAYRFRVALPAYPASLTDVSLALSELRPNDSGIYRCEVQ ::::::::::::::::::::::::::::::::::::	160 170 180 190 200 210 GVVFLYREGSARYAFSFSGAQEACARIGAHIATPEQLYAAYLGGYEQCDAGWLSD ::	230 240 250 260 270 280 GDMDGFPGVRNYGVVDPDDLYDVYCYAEDLNGELFLGDPPEKLTLEEARAYCQER ::::::::::::::::::::::::::::::::::::	300 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 340 350 350 350 350 350 350 350 350 350 35
40 RAFRVRIAGDA :::::::::: RAFRVRIAGDA 40	110 AYRFRVALPAY :::::::::: AYRFRVALPAY 110	180 SGAQEACARIG	250 DDLYDVYCYAE :::::::::: DDLYDVYCYAE 190	320 FPIVTPSQRCG::::::::::::::::::::::::::::::::::::
30 DVLEGDSSEDI :::::::: DVLEGDSSEDI 30	100 ARGVRVKVNE2 :::::::: ARGVRVKVNE2 100	170 EGSARYAFSF	230 240 GDMDGFPGVRNYGVVDPDD:::::::::::::::::::::::::::::::::	310 PGWLADGSVR::::::: PGWLADGSVR: 250
20 7LAQAPAALA :::::::::: 7LAQAPAALA 20			230 CYGDMDGFP ::::::::	300 MVDGGLDHCS ::::::::
10 MAQLFLPLLAALVLA :::::::::::: MAQLFLPLLAALVLA 10	80 VLGSPRVKWTFLSRG :::::::::::: VLGSPRVKWTFLSRG 80	150 HGIDDSSDAVEVKVK ::::::::: HGIDDSSDAVE	220 QTVRYPIQTPREACYG : ::::::::: QRYPIQTPREACYG 160	290 GAEIATTGQLYAAWD :::::::::::: GAEIATTGQLYAAWD 230
332 BEF	332 BEF	332 BEF	332 BEF	332 BEF

Fig. 24G

370 380 400 410 ASNPASNPASDGLEAIVTVTETLEELQLPQEATESESRGAIYSIPIMEDGGGGSS: ::::::::::::::::::::::::::::::	440 450 460 470 480 ETQSMVPPTGFSEEEGKALEEEEKYEDEEEKEEEEEEEVEDEALWAWPSELSSP :::::::::::::::::::::::::::::::::::	510 520 530 540 550 SLSQAPARAVLQPGASPLPDGESEASRPPRVHGPPTETLPTPRERNLASPSPSTL ::::::::::::::::::::::::::::::::::::	580 620 SGVPRGESEETGSSEGAPSLLPATRAPEGTRELEAPSEDNSGRTAPAGTSVQAQP :::::: SGVPRGGARGARTQ-	
380 400 400 410 ASDGLEAIVTVTETLEELQLPQEATESESRGAIYSIP: :::::::::::::::::::::::::::::::::::	470 EEEKEEEEEEI: ::::::::: EEEKEEEEEEEI	540 PPRVHGPPTETI ::::::::: PPRVHGPPTETI 480	610 EGTRELEAPSEI : . : GAR	
390 VTVTETLEELQ:::::::::: VTVTETLEELQ: 330	460 KALEEEEKYED: ::::::::: KALEEEEKYED: 400	510 520 530 540 SLSQAPARAVLQPGASPLPDGESEASRPPRVHGPPTET ::::::::::::::::::::::::::::::::::	600 APSLLPATRAP:	670 LLFFPLQLWVT :.: FAL
380 SNPASDGLEAI ::::: FQLDGLEAI	440 ETQSMVPPTGFSEEEGI ::::::::::::::::::::::::::::::::::	520 PARAVLQPGASI ::::::::::	590 SESEETGSSEG	650 660 670 PASGNSAQGSTALSILLLFFPLQLWVT : . :
0 SAIPEASNPASNPA : PSLRPPTQPPTQL-	440 TLLEFETQSMVI::::::::::::::::::::::::::::::::::::	510 AAQEKSLSQAP :::::::: AAQEESLSQAP 0	580 3GPELSGVPRGE :::::::::: 3GPELSGVPRG- 0	5VAVVPASGNS
360 YCFRDSAQP-SAIPE ::::::: YCFRDSAQLLPSLRP 300	420 332 TPEDPAEAPRTLLEF ::::::::::: BEF TPEDPAEAPRTLLEF 360	490 332 GPEASLPTEPAAQEK ::::::::::: BEF GPEASLPTEPAAQEE 430	560 332 VEAREVGEATGGPEL :::::::::::: BEF VEAREVGEATGGPEL 500	630 640 332 VLPTDSASRGGVAVV BEF
332 BEF BEF	420 332 T : BEF T	490 332 G : BEF G 430	560 332 V : BEF V 500	630 332 V BEF -

Fig. 24H

PRSRRA : ::: PPSRRA 70	YRCEVQ ::::: YRCEVQ 140	AGWLSD :::::: AGWLSD 210	DYCLER .:: :: AYCQER 280	QNRFNV ::: HSRFNV 350
60 IPCHVHHLRP:::::::: IPCHVHYLRP 60	130 SELRPNDSGV ::::::::: SELRPNDSGI 130	200 AYLGGYEQCD ::::::::: AYLGGYEQCD 200	270 PSKLTWEEAR: :::::::::	340 FPNQTGFPSK :::::::::
30 40 50 50 60 5DSSEDRAFRVRI-GAAQLRGVLGGALAIPCHVHHLRPPRSRRA ::::::::::::::::::::::::::::::::::	90 130)REVEVLVARGLRVKVNEAYRFRVALPAYPASLTDVSLVLSELRPNDSGVYRCEVQ ::.::::::::::::::::::::::::::::::::::	160 170 180 190 200 GVVFLYREGSARYAFSFAGAQEACARIGARIATPEQLYAAYLGGYEQCDAGWLSD::::::::::::::::::::::::::::::::::::	230 240 250 260 270 SGDMDGYPGVRNYGVVGPDDLYDVYCYAEDLNGELFLGAPPSKLTWEEARDYCLER ::::::::::::::::::::::::::::::::::::	300 340 320 330 340 340 350 340 340 340 340 340 340 340 340 340 34
40 RVRI-GAAQL ::::::::: RVRIAGDAPL 40	110 FRVALPAYPA ::::::::: FRVALPAYPA 110	180 2EACARIGAR :::::::: 2EACARIGAH 180	250 YDVYCYAEDL ::::::::: YDVYCYAEDL 250	320 ITPSQRCGGG .:::::::: VTPSQRCGGG 320
30 KEDSSEDRAF :::::::: GDSSEDRAF	100 .RVKVNEAYR: .::::::: 7RVKVNEAYR: 100	170 RYAFSFAGA(::::::::: RYAFSFSGA(170	240 YGVVGPDDL':::::: YGVVDPDDL' 240	310 ADGSVRYPI:::::::: ADGSVRYPI:
20 QAPAALADDLK ::::::: QAPAALADVLE 20	90 EVEVLVARGI : . : : : : : . EAEVLVARGV 90	160 VVFLYREGSA ::::::::: VVFLYREGSA	230 DMDGYPGVRN ::::::::: DMDGFPGVRN 230	300 GLDRCSPGWI :::::::: GLDHCSPGWI 300
10 20 30 40 50 60 M MIPLLISLLAALVLTQAPAALADDLKEDSSEDRAFRVRI-GAAQLRGVLGGALAIPCHVHHLRPPRSRRA : .:.:::::::::::::::::::::::::::::::::		140 150 200 M HGIDDSSDAVEVKVKGVVFLYREGSARYAFSFAGAQEACARIGARIATPEQLYAAYLGGYEQCDAGWLSD ::::::::::::::::::::::::::::::::::::	0 QTVRYPIQNPREACSG: ::::::::::: QTVRYPIQTPREACYG 220	0 330 340 GAQIASTGQLYAAWNGGLDRCSPGWLADGSVRYPIITPSQRCGGGLPGVKTLFLFPNQTGFPSKQNRFNV ::::::::::::::::::::::::::::::::::::
M MIPLLLS : .:.: H MAQLFLI	70 80 M APGFPRVKWTFLSGI : ::::::: H VLGSPRVKWTFLSRG	140 M HGIDDSS :::::: H HGIDDSS	210 M QTVRYPIQNPREACS :::::::::: H QTVRYPIQTPREACY 220	280 M GAQIASTGQLYAAWN ::::::::::::: H GAEIATTGQLYAAWI 290

Fig. 24I

S:: S:: 20	I ФО	ნ . ლ	ξή I
0 360 410 YCFRDSAHPSASSEASSPASDGLEAIVTVTEKLEELQLPQEAMESESRGAIYSIPISEDGGGGSS' ::::::::::::::::::::::::::::::::	420 430 440 450 460 470 EDPAEAPRTPLESETQSIAPPTESSEEEGVALEEEERFKDLEALEEEKEQEDLWVWPRELSSP :::::::::::::::::::::::::::::::::::	0 500 530 LSQVSPPAQAVLQLDASPSPGPPRFRGPPAETLLPPREWS-ATSTPGG :::::::::::::::::::::::::::::::::::	630 640 650 670 IPSPCHNGGTCLEEKEGFRCLCLPGYGGDLCDVGLHFCSPGWEAFQ . :::
410 EDGG :::: EDGG	WPRI :: WPSI	530 WS-AT : RNLAS 50 50 :: RTVLA :: 620	CSP(
H P I S I S I S I S I S I S I S I S I S I	470 -LWVWP ::::: ALWAWP	53 PREWS- ::: PRERNI 550 0 KSGRTV .::::	GLHE
400 GAIYS ::::: GAIYS	 /EDE	TLLPPE TLPTPE 590 SEEK	900°
370 380 400 410 DGLEAIVTVTEKLEELQLPQEAMESESRGAIYSIPISEDGGGG :::::::::::::::::::::::::::::::::	420 430 440 450 460 PEDPAEAPRTPLESETQSIAPPTESSEEEGVALEEEERFKDLEALEEEKEQED- ::::::::::::::::::::::::::::::::::::	510 520 530 PSPGPPRFRGPPAETLLPPREWS-A : : : : : : : : : : : : : : : : : : :	
MESE T.:: 400	EEKE::::	RFRGP: .:: RVHGP 580 VGPRE: ::	650 CLPGY
390 PQEAI :::: PQEA'	460 LEALEEEK : :: EEEKEEEE	- PPRF ::: RPPRV 	CLC]
0 1701 1701 1701	KDLE : : EDEE	P : EASRP 530 PATWA::::	EGFF
KLEE ::: TLEE 39	EERFK: : :	0 G DGES 570 PSLL	640 LEEK : L
380 7VTE 1:::	450 ALEEEERF: :::::: ALEEEEKY: 46	0 510 510 510 LSQVSPPAQAVLQLDASPSPG ::::::::::::::::::::::::::::::::::	6 HNGGTCL ::::
AIV7 :::: AIV7 80	EEGV7 :::::: EEGK7 450	LDASP .::: PGASP 520 SSSLE SSSLE SSE	CHING
))GLE ::::)GLE	3SEEEG 7SEEEG 450	500 QAVLQLD .:::: RAVLQPG 560 SEEAGSS :::::::	630 [PSP
370 D	440 PTES ::	0 LSQVSPPAQAVLQLD ::::::::::: LSQAPARAVLQPG 510 560 550 560 LSGVPR-ESEEAGSS :::::::::::::::::::::::::::::::::::	\mathcal{O} \mathcal{O}
PAS- ::: PASN 370	4 TQSIAPPT ::::: TQSMVPPT 440	490 SET-EHSLSQVSPP::::::::: PAAQEKSLSQAP 50 550 5ETGSPELSGVPR- EATGGPELSGVPRG 570 570	620 AVAPSSGDC::::::AVVPASGNS
EASS:	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
ASSE	43. PLES: :: LLEF!	49 15T - EHS 10 10 15 15TGSPE 15TGSPE 15TGSPE 15TGSPE	SHGG : • : SRGG 640
360 AHPSA : : : : : AQPSA 360	0 AEAPRT :::::: AEAPRT 430		610 620 AQPVLPTDSASHGGVAVAPSSGD :::::::::::::::: AQPVLPTDSASRGGVAVVPASGN 630 640 65
'RDS' ::: 'RDS'	420 DPAE/ :::: DPAE/	480 LPTG; ::: ASLPTE; 540 -AREVG; :::::	6.7 VLP? VLP? 0
വ	с с	4 1 1 1 560	·
H Z 3	Z II		Z H

Fig. 24J

Fig. 24K

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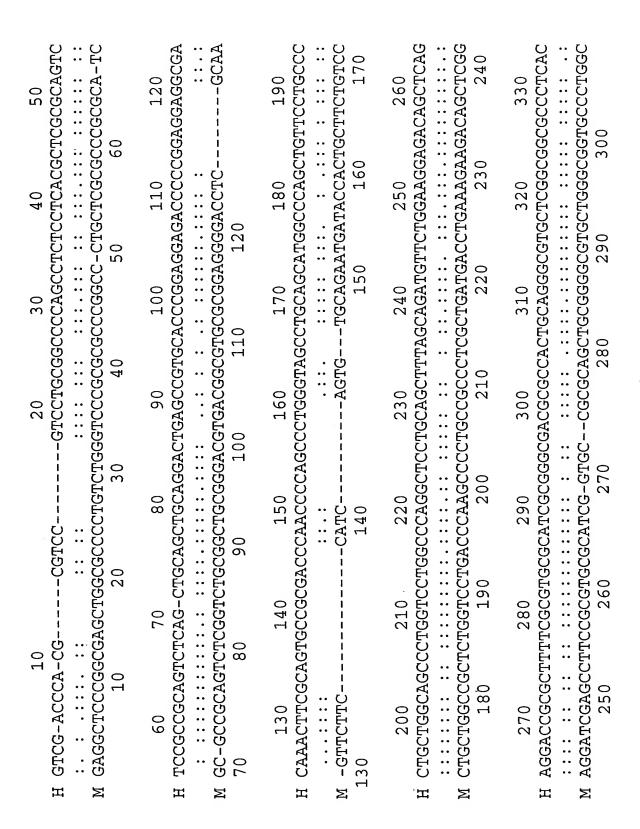


Fig. 24L

() ()	a: ·· a:	firfi () fi	£1 · · £1
367 367	STG STA	CGCC	
40 70 30 30 30 30 30 30 30 30 30 30 30 30 30	470 AAGG	540 GGCC 13AGTZ 610 2AGCZ	680 3CTT :::
) 	71C7 11C7	CCT:	TATC:::
:TCTC(: : :: TTTC(: 370	GCGT, :::: GCGT, 440	CTCC :: GTCT 510 GATG ::: 580	 GCT
90 660 ::	460 GTGC ::: CTGC	530 : : : : : : : : : : : : : : : : : : :	670 GCCC ::::
3 CTG : : CCG	4 GAG : . GGC	CGA :: GGA 6GC ::	6 CTG CTG
GTG(: : :GCG(360	.20 430 440 450 460 470 !TCCCGGGGCCGGGAGGCAGAGGTGCTGGTGGCGCGGGGAGTGCGCGTCAAGGTGA ::::::::::::::::::::::::::::::::	90 500 510 520 530 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 550 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540 540	GCT(::: GCT(640
H Ö U :: U O U :: U	ນ : ນ ປະ ເມ	0 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 4 . 4 0 4 0 0
0 . 0 m	450 IGGC : : : : IGGC	520 3TCG(1::: 590 3TCC/ 3TCC/	660 3AGA(::::
 	CTGG' :::: CTGG' 420	CAGC(CCGC) 490 TGAG(CCGC) 17GAG(CCAC) 17GAG(CCAC)	TACC(::: TACA(630
3500	1967. 177.	16 H	CT7:
370 370 370 3602	440 AGGJ ::::	510 GTAC ::: CTAC CGCJ	650 111C1 1 : :
, 00 , 00 , 00	2,2AG2 ::::	0000 0000 0000 00000 00000	CTT :::
340		1001 1001 1001 1001 1001 1001 1001 100	CGT(::: CGT(620
0 0 0 0 0	0 GGA GGA	0 :::: CTG O GTA	0 GGT GGT
36 11GC 11GC	430 CCGG(::::	500 GCAC' : : GCGC' 570 CAGG'	640 AGGG : : : : AGGG
TACC ::: CACC 330	:GGGG :::. :GGGA 400	CGTG ::::: CGTG 470 GACT ::::	TCAA :::: TCAA 610
ACT SCC 3	ე :: ე :: ე ე :: ე 4	0 . 0 4 . 4 0 . 0 0 . 14 0 . 0 4 0 . 10 0	3GT 3GT 6GT
350 100 100 100	420 37C 37C 37C	490 1110 1110 1110 1110 1110 1110 1110 1	630 CAA(:::
\$CG.	, CCT(::::	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	3GTC
320	177C ::: 177C 390	480 ACGAGGCCTACCGGT ::::::::::::: ACGAAGCCTACCGGT 50 460 550 530 530 530	36AG ::: 36AG
.0 .TTC .::	.0 !ACT !ACC		0 GTG GTG
34 CCC :::	410 TGGA :::: TGGA	480 AGGC : . : : AAGC 550 CGAGC CGAGC	620 GCTG :::: GCTG
340 350 360 370 380 400 CATCCCTTGCCACGTCCACTACCTGCGGCCACCGCCGGGCTGTGCTGGGCTCTCCGCGGGTC ::::::::::	410 420 430 440 450 460 470 H AAGTGGACTTTCCTGTCCCGGGGCCGGGAGGCCAGGGTGCTGGTGGCGCGGGGAGTGCGCGTCAAGGTGA ::::::::::::::::::::::::::::::::		620 630 680 H GACGCTGTGGAGGTCAAAGGGGTCGTCTTTCTCTACCGAGAGGGCTCTGCCCGCTATGCTTTCT ::::::::::::::::::::::::::::::
H Z	H Z	H M H M	H Z

Fig. 24M

•				
1GC 1.::	47C	76 75 76 76	$0 \cdot 0$	₽CG ::. \$CA
750 CTA: ::: CTA:	870 CCC7 CCC7	890 11667 11667	960 TGA(: CGC(1030 CACC2 : :
.::: .::: .GCT	TAT :: TAC 0	GTG : . : GAG 0	. : : : . . A G G	1 GCC :: GCT
1300 1300 1300 1300 1300 1300	3AGGT.:::3AGGT.7	. : : : ATGG' BCGG'	:::: :::: :CCTA(######################################
740 CGG2 CGG2	810 CGTC ::: TGTC	880 AACT ::::	950 TGTT :::: TGTT	1020 CAGAG ::::
	GACC S : : AACC	7550 1550 1550	AAC' AAC' 0	1 1 1 1 1 1 0
#CCAC(:::: #CCAC(TCAG; ::. CCAA; 780	GTCCC::::::::::::::::::::::::::::::::::	:::: :::: :gagazi 920	3GGGTG :::: 3TGGTG 990.
730 .:::	800 CGGA	870 CGGG	940 AATG ::::	1010 GAGCG ::::
CAC.		 	CTA ::: CTA	1. AGG. .:: TGG.
700 700 700 700	166CT(1:::: 166CT(770	SCTTC(:::. SCTAT(840	AGACCI SESSE AGACCI 910	GCCA(::::: GTCT(
00 720 730 740 750 AGGAGGCCTGTGCCCATTGGAGCCCACCCCGGAGCAGCTCTATGC ::::::::::::::::::::::::::::::::::::	70 780 820 820 820 820 820 CTATGAGCAATGTGAGCTGGCTGTCGGATCAGACCGTGAGGTATCCCATGUSTGTCGGATCAGACCGTGAGGTATCCCATGCTGTCGGATCAGACCGTGAGGTATCCCATGCAGCAGCTGCCGACCAAACTGTGAGGTACCCCATGTATGAGCAGTGTGAGGTACCCCATGAGCTACCCCATGAGGTACCCCATGAGCTACCCCATGAGCTACCCCATGAGGTACCCCATGAGCTACCCCATGAGGTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACAGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCCCATGAGCTACCATGAGCTACCCCATGAGCTACCATGAGCTACCCCATGAGCTACAGAGCTACCCCATGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGCTACAGAGAACAGAGAAACAGAGAAACAGAGAAACAGAGAAACAGAGAAACAGAGAAACAGAAACAGAAAAAA	40 850 860 870 880 890 GCCTGTTACGGAGACATGGATGGCTTCCCCGGGGTCCGGAACTATGGTGTGGTGG ::::::::::::::::::::::::::	930 TGAZ ::	1000 GTACT ::::
CAT :::	GCA	. : : : : 0	.:: .:: .TGC	1 GCG : GAC
2009C	rgarge ::::: rgarge 760	3ACAT ::::: 3ACAT	3TTATC :::::: 3TTATC 900	ACGGG(::::: TCGGGJ
710 GTG(: : GCG(780 ATG: .::	850 GGAC :::	920 ACTC 	990 AGCZ .:.
100H 100H 100H	 	TAC:	##GT :: :	. : : . : : . GGA
3AGGC ::::: 3AAGC 680	ATGAG ::::: ATGAG 750	CTGTT:::::	3ATGT ::::: 3ATGT 890	FGGAG :::: 3GGAG
700 CAG(::: CAG(770 GCT2 ::: GCT2	840 667 667	910 TAT(:::	980 CAT
39CC 3.:: 1.:: 1.0 1.0	3999 39999 10	::: ::: !AGA	CTC :::	TGA:::
0 CTGGGGCCC :::::::: CTGGAGCCC 670	760 GCCTACCTTGGGGG :::::::::: GCCTACCTCGGCGG	CACGA ::::: CACGA 810	FGACC' :::: FGATC' 880	AAGCT(::::: AAGCT(950
690 TTC:	760 TAC(::: TAC(830 000 000 000 000 000 000	900 GGA: ::	970 .GAG2
	760 770 780 820 H CGCCTACCTTGGGGGCTATGAGCAATGTGATGCTGGCTGG	& :: & & :: &	$0 \cdot 0$	0 : 0 0 : 0
т т т т т т т т т т т т т т т т т т т	н СG : М TG(H CA::: M CA	H AC M GT	H TC :: M TC 940

Fig. 24N

5 · · · · · · · · · · · · · · · · · · ·	년 :: 년 년 :: 년	S :: S	ტ . ტ ქ	Ö :: Ö
1040 1050 1060 1070 1080 1090 1100 H GGCCAACTGTATGCAGCCTGGATGGTGGCCTGGACCACTGCAGGGTGGCTAGCTGATGGCAGTG :::::::::::::::::::::::::::::::::::	1110 1120 1130 1140 1150 1160 1170 TGCGCTACCCCATCGTCACCCCAGCCGCTGTGGTGGGGGCTTGCCTGGTGTCAAGACTCTTTCCT :::::::::::::::::::::::::::::	1180 1190 1200 1210 1220 1230 1240 CTTCCCCAACCAGACTTCCCCAATAAGCACAGCCGCTTCAACGTCTACTGCTTCCGAGACTCGGCC ::::::::::::::::::::::::::::::::	1250 1260 1270 1280 1290 1300 1310 CAGCCTTCTGCCATCCTGAGGCCTCCAACCCAGCCTCTGATGGACTAGAGGCTATCG ::::::::::::::::::::::::::::::::::::	1320 1330 1340 1350 1360 1370 1380 TCACAGTGACAGACCCTGGAACTGCAGCTGCCTCAGGAAGCCACAGAGAGTGAATCCCGTGGGGC ::::::::::::::::::::::::::::
11 3ATGC 3.::3 3ATGC	11 TTCTC :::	12 GACT GACT	13 GAGGC :::: GAGGC	13 CCCGJ : ::3 CTCGJ
GCTGA' ::::: GCTGA' 1070	AGACT(:::: AGACC(1140	CCGAG; ::::: CCGAG; 1210	CTAG :::: CTTG	AATC :.:: AGTC
1090 GCTA:::	1160 GTCA :::: .GTCA	1230 GCTT(::::	1300 TGGA(:::: TGGA(1370 !AGTG2 :::: !AGCG2
	:::: ::::: :::::::::::::::::::::::::::	CTACT ::::: CTACT 1200	1. CTGAT(.::: -AGAT(1260	17. AGAGA(::::: 3GAGA(1330
30 30 30 30 30 30 30 30		12 12 12 12	CCTC	CACZ
1080 AGCCC 	1150 GCTTG(:: :: GCCTG(1220 CAACG::::	1290 AACCCAGC	1360 GGAAGCC? :::::: GGAAGCG? 1320
.crgc. :: !argr? 1050	.:::::::::::::::::::::::::::::::::::::	.6CTT(:::: :GCTT(1190	CAAC	CAGG :::: CAGG
1070 GACCA: ::: .	1140 GTGGT :::: GTGGG	1210 .CAGCC : .GAACC	1280 .GCCTC .GCCTC	1350 TGCCT ::::: TGCCT
1 CTGG2 CTGG2 CTGG2	1.3 3CTG: 3CTG:	12 3CACZ 3.0 3.0	1250 1260 1270 1280 CAGCCTTCTGCCATCCCTGAGGCCTCCAACCCAGCCTCC :::::::::::::::::::::::::::::::::	1; !AGCT(:::: !AGCT(
	AGCGCC: ::::::::::::::::::::::::::::::::	TAAGCZ :::: CAAGCZ 1180	**************************************	: 1 GCZ
1060 TGGT :::: TGGT	1130 AGCC AGCC	1200 CCCAA! :::.	1270 CTCC :::	1340 GAAC :::: GAAC
:TGGGA ::::: TGGAA 1030	.caccc .:::: .caccc 1100	CTTCC ::::: CTTCC 1170	'GAGGC ::::: 'GAGGC 1240	1 3GAGG ::::: 3GAGG
50 GCCT GCCT 1:::	20 TCAC :::: TCAC	90 TGGC TGGC	60 CCTG 	30 CCCT ::
10! !GCA(:::	112 TTCG::	115 GACT	126 SATCC	1330 'AGAGACC(::::: 'AGAAAAG(1290
GTAT ::: GTAC 1020	1110 11 FGCGCTACCCCATCG :::::::::::: FGCGCTATCCCATCA 80 1090	ACCA::::ACCA:	11030	1320 rcacagrgacagaga ::::::::::::: rcacagrgacagaaa 1280
1040 CAACT ::::: CAGCT	1110 GCTAC :::: GCTAT	1180 CCCCA ::::	1250 CCTTC :: ::	1320 CAGTG ::::: CAGTG
1 1 1 1 1 1 1 1 1 1 1 1	1 1909 1909 30	THICK	1); CAGC(: : CATC(1; TCAC; :::: TCAC; 1280
н GG :: М GG	H TG(:: M TG(1080	H CT	H CA(:: M CA' 1220	H Z

Fig. 240

Ö Ö	T. C.G.	GT.	C :: C ::	5 : E
50 466 466	20 400 5 : : 400	90 3AG 3AG	30 30 31 31 31 31 31 31	ПGG . : ССССТВ В В В В В В В В В В В В В В В В В
1450 'AGAG' :::: 'AGAG'	1520 GAAG :::: GAAG	1590 AGGA(:::: AGGA(1660 TCTCCCCACT ::::::::: TCTCCCTACT 1590	CCTG(:::::::::::::::::::::::::::::::::::
1, 'AGCA(:::: 'AGCA(1. GAGG; :::: GAGG; 1480	.GAGG, :::. .GAGA, 1540	1 1 1 1 1 1 1 1 1 1 1 1	1720 GCAGC .:::
Ž :: Ž	:: ::: AA(AG2 3 : : AG2 1 ! : 1 !	D I	1 1 1 1 1 1 1
40 3AC 3AC	10 CAG :::	30 4GA . : : 3GA	0 0 1	1
1440 ;AAGA(:::: ;AAGA(1510 CTCA(:::: CTCA(1580 1590 AAGAAGAAGAGGAGAG ::::::::::::::::::::	1650 AGGC	. AGTC(::: AGTT(1650
1 CAGA :::: CAGA 1400	16 GTTC: :::: GTCC:	1 GGAAC TCTGC 1530	1650 CTGAGGC	1710 GGGCZ
	366 .:	BAG CT	Ď,	1 Agg
1430 TCCAC::::	1500 CCACC : :: CTACC	1570 1580 1590 AGAAAGAGGAAGAAGAGAGGAGGT:::::::::::::::::::::::::::::::::	1640 CCGGG :: CC	CAGC?:::: CAGCC
114 7.1.0 7.1.0 90	15 2CC ::	15 144 1: 166	16 300 300) CCA CCA 16
1, AGCT(:::: AGCT(1390	15 CGCCC : . : : CACC	AGAA. TT(АG(. : АG(1700 - CGCC : : :
 4.0.0	TAC :: CAC	AGA 1	AGC ::: 08	300
1420 AGGT :::. AGGA(1490 ATGG' :::: ATTG' 0	1560 AAGA)	1630 GCTCAG :::::: GCTCAG	: :GTGT(
14 AGGAG ::::: GGGAG	14 TCCAT ::::: TCCAT	15 GAA	16 AGC :::	
00 1410 1450 CATCATGGAGGAGGAGGTGGAAGCTCCACTCCAGAAGACCCAGCAGAGGCC ::::::::::::::::::::::::::::::::::::	70 1480 1500 1510 1520 GAATTTGAAACACAATCCATGGTACCGCCCCACGGGGTTCTCAGAAGAGGAAGG ::::::::::::::::::::::::::::::::::::	3AT :: 3AC	1610 1620 1630 164 GCTCTGTGGCCATGGCCCAGCGAGCTCAGCAGCCCG : ::::::::::::::::::::::::::::::::	1680 1690 1700 1710 1720 CAGGAGAAGTCACTCCCAGGCGCCAGCAAGGGCAGTCCTGCAGCCTGGTG .:::::::::::::::::::::::::::::::::
) 	CAZ CAZ	40 AAGAGAATATGAAGA :::::::::::: AAGAAGATTCAAAGA 1510	20 CCCAC ::::: CCCAC	
1410 AGGA(: . : : AAGA'	1480 AACA(::: AACC(1550 TATG2 :.	1620 GGCCC GGCCC	1620
1, TGGA(.:: CAGA2	1, TGAA, ::: :GGAA,	15 AAATZ : . : : AGATT	1 1 1 1 1 1 1 1 1 1 1	16 CAC
ATG 13	111G	3AA .:. AAG 15	30 ÷ 30 ÷ 30 ± 50 ± 50 ± 50 ± 50 ± 50 ± 50 ± 50 ±	AGT : : ATT
) \TC\ \TC\	F. F. F. T. F.	.: GAD	10 GTGG(:::: GTGG(1560	
1400 CCCA :::: CCCA 0	1470 TAGA :::: TAGA 0	1540 AGAA(:::: AGAA(1610 CTGT(:::: CTGT(1680 AGGA(.::: -AGA(
1 3.::: 3. ATCC 1360	14' TCCTA(::: CGCTA(1 GGAAA ::::: GGAAA	G G 1	1 CAO
CA::	CTC : : :	15 TGGAGGAAG :::::::: TGGAGGAAG) 866	900 900-
0 :: U) 1 : :	. : : :	lGA	670 CAGCAGC ::: ::: CAGAAAC
1390 CTAC :::: CTAC	1460 AGGA(:::: AGGA(1530 CATT::::	1600 .GGAT(.:: .GGA-	1670 CCAG ::: TCAG
1390 1400 1410 1420 1430 1440 1450 CATCTACT TGAGAGGAGGAGGAGGTGGAAGCTCCACTCCA	1460 1480 1490 1510 1520 CCTAGGACGCTCCTAGAATTTGAAACACAATCCATGGTACCGCCCACGGGGTTCTCAGAAGAGGAAGGTA ::::::::::::::::::::::::::::::::::::	1530 1540 1550 1560 1570 1580 1590 AGGCATTGGAGGAAGAATATGAAGATGAAGAAGAAGAAGAAGAA	1600 1610 1650 1680 1640 1650 1660 GGAGGATGAGGCTCTGTGGCCCAGCGAGCTCAGCAGCCCGGGCCCTGAGGCCTCTCTCCCCACT :::::::::::::::::::::::::	1670 1680 1690 1700 1710 1720 GAGCCAGCAGCCAGGAGAGTCACTCTCCCAGGCGCCAGCAAGGGCAGTCCTGCAGCCTGGTG :.::::::::::::::::::::::::::::::::
	7			
H Z	出 呂	田 区	H Z	H N

Fig. 24P

1750 1760 1770 1780 1790 ATGGAGACTCCAGGCCTCCAAGGGTCCATGGACCTACTGAGAC ::::::::::::::::::::::::::::::::::	1820 1830 1840 1850 1860 GGAGAGGAACCTACCCATCACCTTCCACTTGAGGCAAGAGATG :::::::::::::::::::::::::::::::	870 1880 1890 1900 1910 1920 1930 6GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	1950 1960 1970 1980 1990 2000 CTTCCCTGCTTCCAGGCCCCACAGGGCCCCCTGAGGGTACCAGGGAGCTGGAGGCCCC ::::::::::::::::::::::::::::::	2010 2020 2030 2040 2050 2060 2070 CTCTGAAGATAATTCTGGAAGCTGCCCCAGCCAGCCAGCC
1750 1760 1770 GAGAGTCAGAAGCTTCCAGGCCTCC ::::::	1820 1830 1840 GGAGAGGAACCTAGCATCCCCATCACCTTCC;::::::::::::::::::::::	1890 1900 1910 1910 1910 1910 1910 1910	0 1960 1970 CCCTGCTTCCAGCCACACGGGCCCC;::::::::::::::::::::::	0 2030 2040 AAGAACTGCCCCAGCAGGGACCTCA(:::::::::::::::: AAGAACTGTCCTGGCAGGCACCTCA(1930 1940 1950
1730 1740 H CATCACCACTTCCTGATG :::::: M CGTCACCTTCTCTG 1670	1800 1810 1820 H TCTGCCCACTCCCAGGGAGGAAC : ::: : :::::::::: M TTTGCTCCCCCGAGGGAGTGGAGC	1870 1880 H GGGGAGGCAACTGGTGGT ::::::::::: M GGGGGGAAACTGGGAGC 1780 17	1940 1950 HGAGGGTGCCCCTTC(::::::::: M GCTTGGAGGATGGCCCTTC(1840 1850	2020 H CTCTGAAGATAATTCTGGAA ::::::::::::::::::::::::::::::::::

Fig. 24Q

;		0	2090	1	2100	2	2110	2120		21	2130
ı z'	GACAGCGCCAGCCGA :::::::::::: GACAGTGCCAGCCAC	CAGCCG	AGGTGG ::::: CGGTGG	3AGTGG ::::: 3AGTGG(GGTGGAGTGGCCGTGGTCCCCGCATCAGGTAATT ::::::::::::::::::::::::::::::	GTAAT SGTGAC	T : TGTATCC	GGTGGAGTGGCCGTGGTCCCCGCATCAGGTAATTCTGCCCAAGGCTCA :::::::::::::::::::::::::::::::::::	GGCTCA : ::: GCCACA
•	0 8 0	0 6 6 T	. 71	7000	2010 21	10 2140	2020		2030 2150	Z 0 4 0	
H Z	A : ATGGTGGG	-C-TGC- : ::: ACATGCT 2060	 TTGGAG	 GGAGAA(2070	 GGAGGGTT' 2080	1 C C C C C C C C C C C C C C C C	CCTCTCTAT- ::::: TTTCCGCTGCCTATG 80	TAT::::	CCTA-CT :::: TGCCAGGCTAT 2100		CCT ::: GGACCT
(1	ပ			2170			2180		2190		2200
I Z	TTTCTTCCC- : : :: GTGCGATGTTGGCCT	-TTCCC- : :: TTGGCCT		-CTGC2	CTGCAGCTCTGG- ::::::::: TTTCTGCAGCCCTGGC	3G 3GCTG	GTC	ACCTGA.	GTCACCTGACCTG- : : : : : : : : : : TGGGAGCCTGC	ı Ei	TAGTCCTTT .::::: ACAAGCACTTT
()	2120	2130	C 1	2140 2210	2150	20	2160		2170	2180	
Œ	H AACCCAC-)	CA	-TCA-	-TCA-TCCCAAACTCT	CTCT-		CTGTCC-	TTT
Ξ	M TCCACACGAAGGAGT 2190 2200	AAGGAG 2200	TTGGGA 2	AGGAGGC 2210	CAGAAAGT 2220	STCAG' 20	TGCCGAG(2230	GCCTA	GGTGCTC; 2240	TGGGAGGAGGCAGAAGTCAGTGCCGAGCGCTAGGTGCTCATCTGACCAGCATCT 2210 2220 2230 2240 2250	GCATCT
tr!	GCCT		1	ATTCT	2250 CT-TAC		ACCT	2260 CTACC	2240 2250 2250TCATTCTCT-TACCCACCTCTACCTATGGGTCTC	2270 CTC	1 1 1 1
₹. ′	GCACCCCT(3AGGAG(:: CAAGAC	.:: : TTTTGTC	:. :. CAATGAS	: FCGAT	::: ACCGGGA	GTACC	AGTGGAT	SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVIC	TGACAG
1	0077	77/0	7	7280	7770))	7200		7777	7777	

Fig. 24R

,				
2280 2310 2320 CAATCTCGGATATCCACCTTGTGG-GTATCTCAGCTCTCCGCGT-CTT-TACCCTGTG-AT ::::::::::::::::::::::::::::::::::::	330 CCCAGCCCCGCCACTG	2360 2370 2380 HCCCTTCC-CTGCCATTGGGCCCTCCA	400 2410 2420 2430 2440 2450 GCCAGCCCCACAGAGCATCCTCAGGCCTCTCCAAGGGTCCTCATCACCTATTGCA	2470 2480GCCTTCAGGGCTCGGCCTATTTTCCACTAC
2320 -TACCCTG' .::::: GAACCCTG(2390	2350 -ACCATCTGTGA :::: .:::::: GACCAGGGACAGTGG 50 2460	2390 -CTCAC ::: : CCTC-C	2430 2440 2450 2450 2450 26CTCTCCAAGGGTCCTCATCACCTATTGG	 PTTGGG
2320 CTT-TAC	2350 2ATC' :: :: 2AGGGAC	3TGG3TGGGC	2440 CTCATC :: . :	
GCGT-C:: 3:0380	ACCA :::: :ATGACCA 2450	CCTC :::3 GTCCTC 2520	36GTCC ::: 3GATAC 2590	". 3AGAA1 2660
2310 CTCCC :: :	TGGCZ	TTGTC	2430 TCCAAC : .:	AC
0 2310 CTCAGCTCTCCGCGT-CT7 :::::::::: CTCTGCTCTATGAAACTC 2370 2380	 ATGGTC 2440	 TGGGGC	SCCTC1	2480 CCACTZ : : : . CGCTC
2300 GTATC1 : : : GCCCC1	regicz	C)	2470 2480 CTATTTCCACTAC- : .: .: .: .: .: GCCGTTGATCCGCTGCTGCTGGTTCGGTTGCTGCTGCTGCTGCTGCTG
GTGG-C	ACTG :::: ACTGTG1 2430	2380 -CTCCA :.::. ACACCTGC	2410 2420 GAGCATCCTCAG : : : : : : : : : : : : : : : : : : :	2470 CTZ : .
2290 CTTC :. GTCAGZ	:: :: 3AGAAC	CCCT	AGCATC : : :	AACC1
: TTGTG(2350	0 : : : : : : : : : : : : : : : : : : :	70 TTGGGC:::::::::::::::::::::::::::::::::	2410 GZ GZ 1TTTGC	-GCTCGGC::::::::::::::::::::::::::::::
CCAC.	2340 CCGCC- :::::	2370 IGCCATT(:.:::	7A :: : : :	GCTC
2280 CAATCTCGGATATCCAC : ::: ::: :: CCATCGAGGGTGACTTC 0	(TACTTC	2360 2370 -CCCTTCC-CTGCCATTGGGCC- :::::::::::::::::::::::::::::::::	1C FGGCTC 2550	2460 CAGG : . : : :ACGGGCT
2280 ATCTCGGATA ::: :::. ATCGAGGGTG 2340	-CAGC- :::: \cAGCT	2360 -CCCTT :::: 3CCCTG	 	2460 GCCTTCAGG- ::: ::: GCCGAGACGGGC
1CAZ : : 1 GACCZ 2330	2330 H CC :: M CCTG? 2400	[[ATGTC 2470	2400 GCCAGCCCCA :.::::: AGCTACCCCT 2540	GCC ::: ATGCC 2610
# Z `	Z H N	¤ ∑`	ï ¤ ¤	H Z

Fig. 24S

2490 2500 2510 2520 CTTCA-TCCGCCTGTGTGCCGTCCCCTTTAGCTGC-CTCCTATTGATCTC : ::: : :::::::::::::::::::::::::::	2540 AGGGA-AGCCTGGGAGTC-CC-TTCTCACCCCTC-AACCTCCGGAGT-CCAGGAGAAC .:::::::::::::::::::::::::::::::::::	90 2600 2610 2630 GTACCCCCA-CAGAGCCTTAA-GCAACTACTTCTGTGAAGTATTT :.::::::::::::::::::::::::::::::::	2640TTTGACTGTTTCATGGAAAACA	2680AGCCTTGGAAATAAATCTCTATTAAAGCCTTGGAAATAC :::::::::::::::::::::::::::::::::
.:::. crccr crccarggacgcc	2570 TC-AACCTCCGGA::::::::::::::::::::::::::::::		2650 TGGAAAACA ::::::: TGGGAAACACTTGG 0	
2510 2520 -GTCCCCTTTAGCTGC-CTCCT- : :: :::::::: AGGCCTGGCCGTGCTCTGCGCTCCAT 2710 2720	2560 TTCTCACCCC : .::: :: TGACACGCCC	2620 3TCT- 3GCCAGTGCTCTT	T' ; ;AAGGGGTTTCT'	2670 -AAATCTCTATTAA ::.:::::: TAAGTCCCTAAGTGCCT 2990
2510 GTCCCC' : : : : : : : : : : : : : : : : : : :	2550 2560 CTGGGAGTC-CC-TTCTCACC :::::::::::::::::::::::::::::::	2590 2600 2610 CCGTACCCCCA-CAGAGCCTTAA-GCAACTACT- ::::::::::::::::::::::::::::::::::::		26 AAA ::: TACCCGGTAAG
2500 CCGCCTGTGTGCC :::::::: TTTCCTGTGTACCCC 2690	CTC : : : CTCGAGGCACAC	2600 A-CAGAGCCTTA::::::::::::::::::::::::::::::	2640 CTGTTTCA ::::::::: CTGAAATTCAGAG	2660 AGCCTTGGAAAT- :::: .:: GGCCTCAGGTTTT 2970
		25 CC 16 18		
H Z	H Z	田 区	田 宮	H Z

Fig. 24T

	AAAAA	::						
2700	CAAAAAAAAAAAAAA	:.::.:	3090					
	CAAAA	: :::: ::::: :::: ::::::::::::::::::::	3080	2730	75	•	AAAAAAAAA	3150
		ATTCGATCTT	3070		DDDt	••	GAACCCAAAG	3140
00	AAC	.:: BACACTGTGC	3060	2720	AAAAAAAAGGGCGGCC		PAAGTTGTCI	3130
2690	7	NTCGTNAGGG	3050		AAA	••	ACCAGGTGGAAATAAAGTTGTCTGAACCCCAAAGAAAAAAAA	3120
	GT	:: GTCCCTCGAT	3040				CCAGCAAAAC	3110
	H CGCTTTGT	M CTCCTTG	3030	2710	н дад	•	M GGAGTACCAGCAAA	3100

Fig. 24U

11 66 51 186 111 366 131 426 31 126 71 246 91306 151 486 GGA L CTA CTG C TGT CCA GGA S AGT TGT Ы Д Ö G Ω CTC P CCC GCA ACT TAC GAT N AAC I ATC TTC × ď Ħ Д ഥ L CTG ACA 999 N AAC CCA K AAG GGA JGC TGC Ç Д O \mathbf{c} O \vdash GCC ø LCTC \overline{W} Y TAC TGG AAT ACT H CAT ø \geq Н Z r CFC 999 N AAC CCA AGA TAC GAT CAA TAT $^{\circ}$ Д α \succ О \circ × ж ОдС CCC Q CAG CAT ာ Tgc GIC K AAG ATA GGC 工 \gt Ç Д Н A GCC AGC TACA CAG TATTAC ACC GGT TCA Ŋ Ø × G \succ ₽ ഗ GCC Z, CCT AAC GAT TGC EGAG GGA TTC L \mathcal{O} വ [I Z Д CCC Д 909 AGG ATG ACT CAC GAG GGC K AAA 召 Ø ⊣ 工 闰 \mathcal{Q} \mathbf{z} CCG Д CCC TAT E GAG E GAG CAC L CTT N AAC 9999 \Join 田 G GCG ø CGG GAT AAC GAG GCT AAC TCC GGT Д 闰 α Z Ŋ \mathbf{z} Ŋ ø ATG \mathbf{z} gcg GCC ™ TGG CŢĠ ACG A GCA GGA TTT ø Ø H ഥ STCGACCCACGCGTCCGCCCACGCGTCCGGCCC GCG G GGT FTT 9 96 9 GTG AAG PCCT AAA Ø \gt × × CTG N AAT L CTG G GGG TAT M ATG S AGT F Ы × ACG GCC C TGTEGAG ာ TgC Q CAG T ACC R AGG Þ Н LCTC TACA PCCA G GGG W TGG C TGC Q CAG 9 9 9 0 0 GCG F K AAG N AAC PCCC A GCT TACT S AGT ø GCG C TGT 9 9 9 9 CCC R CGG S AGC PCCT L CTA ø GCC GAG TAC GTG <u>ဂ</u> ဂ I ATA C TGT PCCT ø 闰 \succ \triangleright 2 CAA K AAA S ICC CCC CCC GAC. GAG F TTT PCCT 闰

Fig. 25A

251 786 271 846 311 966 191 606 211 666 231 726 291 906 331.026 V GTC TACT DGAC A GCC E GAG PCCT N AAT R AGG S AGC D GAT E GAG PCCT G GGG V GTG PCCA I ATC N AAC F TTT S TCC PCCG M ATG R Q CAG R CGC င TGC Y TAT D GAC LCTC V GTT S AGC D GAT PCCA E. GAA I ATC V GTC R CGG A GCG R AGG L S TCT V GTG TACC I ATC I ATC S TCG GGG E GAA F R AGG S TCT TACC D GÀC E GAA S AGT H F TTC A GCC R AGG GGC S TCT W TGG F Y TAT K AAG A GCA D GAT MATG Y TAC I ATC R CGC $\frac{L}{TTG}$ V GTC E GAG 9 9 9 9 A GCC D GAC A GCC I ATC ာ Tac A GCC ය බ්රිටි G GGT S TCA V GTC F TTT L V GTC Q CAA Y TAC C TGT Y TAC R AGG L Y TAC V GTC FTTC K AAG N AAC PCCC G G G P R CGT DGAC L TTA W TGG G GGG o CAA TACG F H L V GTT A GCC S AGC Y TAC TACC G GGT TACC A GCT S ICT D GAT H C TGC Y TAC Y TAT F V GTC F TTT PCCT D GAT A GCC TACC H CAC GGC N AAC GGA N AAT G GGG 9 9 D GAC I ATC Q CAG D GAT F N AAC F V GTG FCCC H L S A G GGA ာ ညီ LCTC F TTC S FCC L CTG Q CAG L CHT

Fig. 25B

476 1461 411 1266 351 1086 371 1146 391 1206 431 1326 451 1386 471 1446 S AGC Q CAG E GAA A GCA R AGG PCCC TACT V GTA V GTC PCCT S TCC V GTT L CTT N AAT R AGA S AGT PCCA I ATT D GAC PCCT R CGC CIC H CAC H A GCC G GGG K AAG D GAC TACA N AAC S AGC S AGC S TCA Y TAC D GAT A GCC P GGA V GTC A GCT F TTT Q CAA Q CAG TACA S AGC A GCT P CCT Q CAA I ATT E GAG TACC G GGG LCTC S AGC V GTT S AGT TACG TACC MATG I ATC R CGT W TGG Q CAG I ATC IATC I ATC PCCC LCTC H CAT GGT V GTG V GTC L S TCC GAA K AAG PCCA E GAG Y TAT A GCG TACT K AAA G GGG LCTC A GCC LCTC \overline{W} A GCA F TTC S TCG K AAA V GTG V GTC S TCC L CTG TACA K AAG TACT TACG K AAA N AAT GGT V GTC G GGG K AAG Q CAG S TCC S AGC Y TAT H CAC PCCA F TTT * TAA I ATC N AAC S ICC G GGT V GTC LCTG Q CAA D GAC V GTC R CGG PCCA TACA S TCC LCTT H CAT S AGT I ATT AGCT A GCC V GTC ₩ TGG I ATA C V GTG РСССС A GCT TACT GGA K AAG D GAT S TCA CTT

Fig. 25C

1540	1620	1657
AAACCCCACTGTGCCTAGGACTTGAGGTCCCTCTTTGAGCTCAAGGCTGCCGTGGTCAACCTCTCTGTGGTTCTTCTTCTC 1540	TGACAGACTCTTCCCTCTCCCTCTGCCTCGGCCTCTTCGGGGAAACCCTCCTACTACAGACTAGGAAGAGGCACCT 1620	GCTGCCAGGGCAGACCTGGATTCCTCCTCCTGCTT

Fig. 25D

79

19 137 39 197 GAT Ω gcg GCA Ø CTG GGT ტ ACT N AAC CIC ggg ø GCG ACA ⊣ GCT TIC ſτι GCC C TGC TCC GAG 闰 CTCCCC CTGggc ტ gcg s TCC CICGGC R CGT P CCC GCC GGT ტ gcc CCC CCC A GCG CCG CCC GCG R CGG C ATG A GCC

59 257 N AAC TGG Z F L C TGT PCCA K AAG ი მვმ G GGT o Caa L CTG A GCG TACA WS AGC Q CAG T ACA G GGA R AGG Y

79 9 96 96 r CTG GGA ധ GGA ტ GAA 臼 GGG ტ AAC z CCC $^{
m Y}$ AAG 노 L CTG TACG AAC Z Y TAC P H CAT Q CAG F ACT E E GAG 99 E GAG A GCC GTG > Y TAC ာ ဦင W PCCT S AGC GTG > GAC Д GGA ტ D GAT PCCA N AAT R AGA C TGC Y TAT N AAT H CAC E GAG

Fig. 25E

259 857 119 437 139 497 159 557 179 617 199 677 219 737 239 N AAC A GCT G GGG GGT S TCA S TCT V GTC L FITT G GGA ACC F TTT H C TGC Y TAC R AGA V GTC CTG P CCT K AAG K AAG PCCC N AAC G GGC K AAA T ACC R CGC MATG F W TGG Q CAG G GGG TACT S AGT F H Q CAG T ACC Y TAC T ACG N AAC T ACC R AGA GGT A GCC C TGC 9 9 9 9 Q CAG D GAC Y F Y TAC H C TGC TACG A GCC S AGT PCCT D GAC A GCC TACC H CAT 9 9 9 9 PCCT G GGG G GGC D GAC L R CGG N AAT I ATC DGAC I ATT C TGT N AAC F V GTG PCCT R CGC L CTG PCCT E GAA G GGG P CCT F ာ ညီ L F L CTG S TCT C TGT PCCA C TGT TACT GAC E GAG S AGC V GTC A GCC Y TAC N AAC I ATC DGAC F S AGT PCCT G GGA V GTG K AAG GGA C TGT C TGC N AAT F S CCA ATG W TGG H T A GCC ည် မျှင် Y V D GAC CTC Y TAC D GAT Q CAA Y TAT E V GTG A GCA I ATC 7 7 7 6 6 V K AAG I ATA 9 9 9 T ACC I ATT V GTG I ATC S TCT GGA GGA Y TACC S TCA S AGC R AGG A GCC T ACC D 3AC D GAC ဂ ဂြိ EGAG r CFC A GCC 9 9 9 A GCA W R AGG E GAG 9 9 9 9 9 K AAG MATG D GAC A GCG MATG Y I ATC H N AÀC . 966 E 3AG 9 9 9 L A 3CC ာ ၁၈ DGAT

Fig. 25F

399 1277 459 1457 319 419 339 359 1157 379 439 299 977 R AGG V GTC Q CAA V GTG R CGT S I ATA VGTC CTC P E GAG S TCA F TTT Y TAC E GAG Y TAT H CAC N AAT GAT L TTG A GCA r CFC G GGG R CGA L TTA Γ S AGC Д CIG V GTG $_{\rm L}$ WR AGA V GTC PCCT H CAT L CTT S TCT A GCT TACC K AAA A GCC S TCA G GGG R AGA I ATT V GTC FTTTQ CAG S TCC A GCC T ACG M ATG L CTG L TTA S TCC N AAT G GGA N AAC V GTA CTGTC TGC S AGC S TCT Q CAG FTTC Q CAG V GTC H CAC L CTG V GTC PCCA $_{
m TTC}$ A GCC S TCT A GCC A GCT A GCC G GGA F V GTC S TCT L CTG Q CAG D GAT R AGA caa Caa PCCT A GCT T ACT TACT LCTA PCCT N AAT R AGA SAGC Q CAG K AAG Q CAA ი მმმ PCCG E GAG I ATC P S TCG L TTA PCCA V GTC W TGG 자 2GC 7 2 3 3 5 5 Q CAG S AGT PCCT E GAG L TACC CTT SAGC D GAT PCCA LCTC T ACA Q CAG E GAG H N AAC R AGG P S TCT N AAC Q CAG M ATG S AGC A GCC Q CAG GGG F E GAA A GCC PCCC T ACA S TCA H S TCT Ġ S AGT E GAG F Q CAA PCCA Q CAG S AGC L FTTT CTC Y TAT K AAG E GAG G GGG PCCC S TCA s TCC PCCA R CGG L ITG T ACC TACC E G GGA TACC L S A GCC GTC I ATT IATC I ATC Q CAG S TCA IATC S TCT

Fig. 25G

CCC GCA ATC ACC ATG AAG AAC GIC AGA

1493

1809 1888 1967 2046 2125 2204 2283 2520 2599 2678 2757 2836 2915 2994 2362 2441 3073 1572 STGGCATTGGCGCCCTAGAGGCCCAGAGGCCCAGTGTAGGCTTGGAGCTTTCTCTCTGCTGCCAACTACCATGTGTCATCT AGTCCGAGGGGACTGAGAGCAGGGCCACACACAGATGTCATCTTTCTAGAGGGTTCTTTTAGTACCCACTGACCAATGG TAGCCCTCAAGTAGTTGCCAATCCTGTGGAATCAGAATTCAGCCTGTCTTCCTGTCTTCAGCCTAAGCCTGTAGCCTAAG TGGGGCTGTAGCACAGAGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCACAGAGCTGGGGCTGTAGCACAGAGCTGG CTGCAGTCTGGAAGTGGCCTTTGTCAGCAGCTGTGCCCTGAAGGTAGACCTTGGTCACTCTCCTGCCAGCCCTTGA STGACTGAAGCCCACGCCTGCATGAGAGGCTCCGCTCCAAGCTCGAGTTTGCTCCCCTGAGTTCTCCTCTGATGAGTTC CCTGCCTTCCCATTCACCACCATCTCTTTTGGGAGCACCCTGCTTTAGAGGCAGCCCAGCCTGGGATCCTCCATCACAT STACCAGCCTGGCTGCTCTGCTGGGGATGGTAAGACAGGCCCAGGCTGACAGGACACAGCTGGACCTGACTGCAGAAGA CTCTTGGGTGGTGGGGAGGTATAGTGTAGGATGAGTTTTCTTGCTTCTTCTTCTTGTTTTTGTCCACATACAGATCGGTTTC CCCTGTCTTTACAGTTTGCAATAGAGCCAGACTGAAAGAACTGTCAGGTTTTCTAGGCTGGCCTGGTTCCCCCACTAAGA <u> AGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCCTAGAGCTGGGGCTGTAGCACAGAGCTGGGGCTGTAGCCTAGAGC</u> TTCCTACGTGAGGTGTCATCATTTTAAAAGCAGATCAAAACTACCGCGAGTTTTGTCCTTTGTCCCTTATCATGGGAGC <u> AGAGTAGGAGTAAGGGCTCTGGTCTTGCTCATTGTCCCCCAGACAGGGAGGCAGGAAAAAGGTCAGGCTTGGGAACTGGA</u> GATCCTCCCAGGAAAAGCTGCAAGATTGAGAGCCCCAGCTGCAGTTGGGAGGGGAAGGGCCCATCCCCGACTGAGAAGTC GCCTCTGCTCTCCTGGGTACCCTCCTGGAACACCATGCTAACCTTCCCCGAGTCTCTCAGTCACTGCCATTGAGGCCTC TACAGGGGTACTAAGCTAAGGGGGTCATCATCTTTGATCTGGGAAAGGCTACAGGCTCCTGGATGTGAAGACAGGCC CACTACATAAGAAGACCACTGGAAATAGACTGACAGGAGCAGGTTCCACTCTAGGCTGTCCATAGCGTTTGCAGGACTC

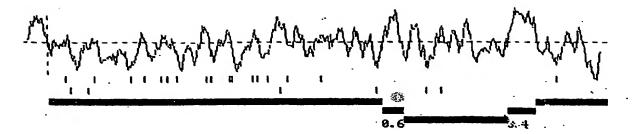
4890 3705 4179 4258 4416 4495 4574 4653 4732 3626 3784 3863 3942 4021 4100 4337 GGATATGACTTTGGACAACAAGGCTTTTATTTGTAAATATGCTCTTAATATGCAACTTTGAGAATAAGATAGAAACATCA ATCTCGGACACAGGAAGCAAGCCCCAGTGTGGTGGCAGCTGCGGCTCAGCATTGGTGTCCCCAGGAAGGGCGGTGGATG GAGCATAGGGGTAAGCCGAGGGAGAAGAGCCCTCAGAGACATCAGCTAAAAAACATAGGTGCCCTATGTCCCTCCT TCCTGTCACACTGCTTACAAAGCAGAGACAGAGTAGGAAAGAGGTCTTCATCCTCTCCCACATCAGCAAGGATAGGGCT GCGGCTGCCTAAAGTGAGCAAGGAGAACAGAGCTCTGGACTTCTCTAAATGTGGGCTCTGGCTTCAGACTCCTCAGCCA AAAGCTCTTGAAGATCAAAGCTCTGGCGGGTACAGCTGTCCTGGCCTGTGGGCCAGCCCATGGGATGTGCCTGGGCCAG GTGCCACCCACGGCTCACTGTCATCCCAGGAGGGACCCCACCTGATGCTCCTCATCATCCGCTGGCCTGACACTATCA GAGCTCGCCGGCTGTTGCCAGGGACAGACTGACTACACTTGACCTTCAAGAGCACTTAGAAGTGGATGGCCTCCAGA CTCTGTCAGCCTCTGCAGGGGCCACACAAGTCTCCCGAGCCAAGTCCACAAGCCTCCATGGTTCCCTGGCTCCTCTCCT GTGGAGTGTCCTGTTTGATGTCTGAGGTCTGCTTTGGGTACCGCCCTGGGAACTGCTAACCTCCGATTGGTCCCTTTTGT GTCTCTGTTTACTGTCCTCTTACCTCCAGGTCACTTAGCTCTGGCTGCTTGGCTGGGAGTGGGAGTGGGGGGGATGCT GGCTGCACCCCCACCCTGGTCTGCCAACAGAACCTGGGGGCCTCACACGGGCTCCTGTCTTGCCAAGCTGGAGCTGAAGC AGATCCAGCGAGGGAGCTGCCATCCCCGCCACCTTCATAGCAGCAAGACCTTCCCATTTCCAATCTCACCCTCCAGCAG <u>AATGGAATGTGATGGTACTTAACTTTTACAAAAGAGAGAAAATGTTATTTTTTACTGTTTGAAGAAAATAATTTTTCTCA</u> ATAGCAGGCCAGGACATTTTTTCAGCTCAGAGCACTGGCCCCCAGGCTTCCTCTAAGCCACCACTCACCTGTCTTTCCT TGCCCACGCTCCTTTTGCTGTGGGCCTGGCACAGCCCAACACTGCAGGGCCCACCTTCTCTCTTTGGGGGGTAGGGACAC CCCTGAGACCAAGTGTTGAGTCACAGAGTGCCATGTGCGTAGTGCATAAAGGATATGGGTTCTTAACCAGGGAAGGCTC TTGTTGTAGAAAAAAAAAAAAAAAAAAGGGCGGCCGC

70 HPYNT :::::	140 GTSKT :::::	210 IILFD :::::	280 YTHRV :::::
0	90 100 110 120 130 14 NYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSK :::::::::::::::::::::::::::::::::::	160 170 180 190 200 21 SQRFKFAGMESGYACFCGNNPDYWKYGEAASTECNSVCFGDHTQPCGGDGRIILF ::::::::::::::::::::::::::::::::::::	240 250 260 270 28 PDTYATGRVCYWTIRVPGASHIHFSFPLFDIRDSADMVELLDGYTHR ::::::::::::::::::::::::::::::::::::
50 GTQNWTALQGG ::::::::: GTQSWTALQGG	120 PACQMPGNLGC ::::::::: PACQMPGNLGC	190 ASTECNSVCFG ::::::::::	260 IHFSFPLFDIF ::::::::: IHFNFTLFDIF
40 FTANGADYR ::::::::::::: FTANGADYR	110 svywkycei :::::::: svywkycei 110	180 PDYWKYGEA ::::::::	250 FIRVPGASH :::::::: FIRVPGASR 250
30 PGLGPGPECI : .::: PRSGPECI 30	100 VCYVAEHEDC :::::::: VCYVAEHEDC 100	170 SYACFCGNNI :::::::::::::::::::::::::::::::::::	240 /ATGRVCYW7 :::::::: /ATGRVCYW7
20 AALTLAARPAPSP ::::::::::: AALTLAARPAPGP 20	90 /CRNPDGDVSPV :::::::::	160 SQRFKFAGMESC::::::::::::::::::::::::::::::::::::	230 SSVVYSPDFPDT3 ::::::::
10	80 100 110 120 130 140 LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKT :::::::::::::::::::::::::::::::::::	150 KLTIQTCISFCR :::::::::: KLTIQTCISFCR 150	220 VGACGGNYSAM ::::::::: VGACGGNYSAM
Hum. P. : Hur. P	Hum. I : Mur. I	Hum. SN :: Mur. SN 140	Hum. TL' :: Mur. TL' 210

Fig. 25J

300 340 350 350 340 350 350 340 350 350 350 350 350 350 350 350 350 35	370 380 400 410 420 SPSHPPQTVPGSNSWAPPMGAGSHRVEGWTVYGLATLLILTVTAIVAKILLHVTFK ::::::::::::::::::::::::::::::::::::	
340 PAVNQTVAE' :::::::: PAVNQTLAE' 0	410 LILTVTAIV? WRPSSSSOS(PLVSD ··· TAIPS 470
330 KEELPQERP? :::::::: KEEPPQERP?	400 WTVYGLATLI : :: : WKD-GLCTA 390	0 470 LKGQSQ-QDDRNI :. : LRRSSRVRVNKM
320 FAVLYQAVI ::::::::: FAVLYQATI	390 3SHRVEGW7 . : PATEWI	460 FKKKLKGQS : : S SPSLRRSS
310 FSDRINQAQGE:::::::::: FSDRINQAQGE 310	370 380 SPSHPPQTVPGSNSWAPPMGAGSI:::::::::::::::::::::::::::::::::::	450 FYKPSTSISIFY : SGPFSMNLPLQS
300 VSLDFVILYF ::::::::: VSLDFVILYF 300	370 PSHPPQTVPG ::::::: PSHPPQTAQV 370	440 PGTSGEIWSIFY .: : TVVSLGLLEISC
290 340 350 350 350 350 350 340 350 350 340 350 350 340 350 40m. LARFHGRSRPPLSFNVSLDFVILYFFSDRINQAQGFAVLYQAVKEELPQERPAVNQTVAEVITEQANLSV ::::::::::::::::::::::::::::::::::::	360 370 410 420 Hum. SAARSSKVLYVITTSPSHPPQTVPGSNSWAPPMGAGSHRVEGWTVYGLATLLILTVTAIVAKILLHVTFK ::::::::::::::::::::::::::::::::::::	430 440 450 460 470 SHRVPASGDLRDCHQPGTSGEIWSIFYKPSTSISIFKKKLKGQSQ-QDDRNPLVSD :: : : : : : : : : : : : : : : : : : :
Hum. Mur.	Hum. Mur.	Hum. Mur.

Fig. 25K



1 41 81 121 161 201 241 281 321 361 401 441

Fig 25L

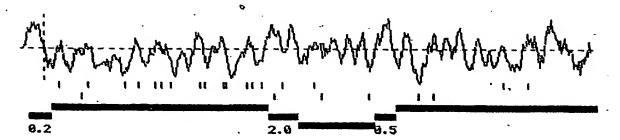


Fig. 25M

93 113 366 133 426 153 486 13 33 126 53 186 73 D GAT G GGA F G GGA L CTG N AAT G GGA C TGT L CTG AAT LCTT N AAT V GTG PCCA W TGG FTTTZ GAT CTC GTC ACT C TGT W TGG E GCC П \gt Н Ø GGG GAA L CTG L CTG GGA R CGG I ATT I ATT Q Q 臼 CAT I ATC R AGG TGG AAA H GGT CTT 出 ⋈ × Ŋ TGC L TTG CAG CAG GGA W TGG Q CAA Y TAT Ø \mathbf{c} \circ Q GAG S TCG TACT GGA K AAA H CAT TGT C TGT 闰 G \mathcal{O} N AAC CAG AAC GTA L TTG C TGC R AGA E GAA \gt Õ Z GTG GAT GTG Q CAA F GTG ACT TGG Ω \gt \geq \triangleright \gt H PCCT A GCT TACA K AAA GTC V GTG CIC GGT > വ CTG GGA GTG ACT A GCC GCT GTT S TCT Ы Q Ø \gt Н \gt ATG F N AAT E GAG S TCA Q CAA S TCA GAT \mathbf{z} П ATG GTG GAG E GAA A GCC GGA LCTT F TTT \mathbf{z} \triangleright Ω 团 AAC S AGT TACA ACT TTT AAT G GGA GCGGCCGCTCGCGATCTAGAACTAGTA \mathbf{z} H Щ Z CAG GGG CAT S AGC ACT CGT GGA Ø Ç Η α \mathcal{Q} 田 CAT I ATC S TCT N AAC F TTT TAT Y TAT 耳 \succ TGT CIC ည် T W TGG ATG C TGT C TGT \circ \mathbf{z} TGC F TTT CCC CCC ი მმმ GCC N AAC S TCC Ø \mathcal{O} $^{\mathrm{TGC}}$ ာ TgC GGT D GAT FTTC CAT GTT \mathcal{O} \gt 耳 R AGA န ၂୯୯ D GAC D GAT S TCT GAT S AGC Д

Fig. 26A

Fig. 26B

353 1086 373 1146 393 1206 413 1266 433 1326 453 1386 473 1446 493 513 566 D GAT I ATA P CCG GTG H CAT I ATA K AAA D GAT Y TAC > L CTT A GCA TACA G GGA C TGT \mathbb{Z} A GCA K AAA V GTT TGT L CTA W TGG G GGA I ATT D GAT K AAG V GTG A GCT C R CGA D GAC TGG L CTA E GAG Y TAT D GAT ø TTT L CTG Q CAG Q CAG R AGA T ACA $\frac{1}{1}$ N AAT S TCT Щ N AAT E GAA E GAA K AAG C TGC AGA AGG A GCT C TGT α α VGTC E GAA ACA L TTG H CAT C TGT D GAC I ATT GGG G E TACC D GAT I ATT V. GTT N AAT GTA Y TAT \mathbb{V} AGC \gt Ŋ R AGA V GTG TGG G GGA A GCA C TGT S AGT LCTC G GGA Z V GTG S TCC G GGA L PCCT A GCT A GCT PCCC AGA 召 CAT E GAG A GCC S TCA GAC D GAT K AAA D GAT S AGC 工 Ω s TCA V GTA Q CAA E GAG S TCA R AGA A GCT H CAT H င် T ာ Tgc R AGA E GAA R CGT R AGA N AAT A GCT C TGT D GAC IATC ი მმმ N AAT G GGG R CGA V GTG R CGT ი მმმ W TGG V GTG S TCA K AAG S AGT TACT F V GTC TACT L CTT S TCT C TGT \mathbb{M} GGC ာ TGC C TGC GGG L Ŋ F TTT V GTG N AAT N AAC TTT S TCT T ACA R AGG TGG 3 ഥ S TCT D GAT N AAC Q CAG E GAG V GTC I ATA L CTA R CGA E GAA N AAC S AGT D GAC K AAG D GAC GGA S AGC S AGC Q N AAT caa Caa G GGA C TGT F TTC N AAC A GCA L CTG CAA

Fig. 260

573 1746 653 1986 673 2046 693 2106 553 686 593 806 613 866 633 926 62 GAA $\mathbb{Z}^{\mathbb{Z}}$ S TCG N AAC M ATG V GTA D GAT S AGT > 闰 I ATC C TGC W9 9 9 9 C TGT ာ ညီင် I ATT L N AAT V GTG D GAC R AGG R CGC GGC I ATT S TCC Ŀ N AAT L CTG Y TAT S TCA D GAT N AAC D GAC I ATC V GTT GAG E GAG D GAT S TCT D GAT N AAT E GAG TACC S AGC 闰 ATG M ATG N AAT R AGA . GGC C TGT S TCT D GAT GGA Ξ GGT 9 9 9 9 V GTG PCCA W TGG GGA H CTC D GAT G Q V GTG TACA WTGG G GGG S TCG F TTT I ATT V GTA C V GTG ာ ညီင် C TGT L CTG GGC D GAC GCA I ATT S AGT Ø H CAT R AGG W TGG L K AAA GAT S TCT N AAT N AAC Ω M ATG L CTG R CGG Q CAG GGA R AGG TCT V GTT H CAT Q S K AAG D GAC GGC G GGA S AGC TAT TGC C TGT P CCT \mathbf{c} \Rightarrow K AAG D GAT G GGA W TGG Q CAA TGT GGA S TCA I ATC Ω \mathcal{O} G GGA L W TGG T ACA V GTG TACA GTG F TTT TGG 3 > CTC C TGT G GGA A GCA YTAC G GGA W TGG V GTG S TCT G GGA I ATT D GAT VGTG A GCT A GCT D GAT S AGT GTT \gt r TTG PCCT H CAC D GAT G GGT E GAG A GCA N AAC S TCA Q CAA G GGA E GAA S TCA LCTG A GCT GGA E GAA E GAG Q K AAA S TCA K AAA R AGA L CTG D GAT C TGT n TGC S AGT $^{\rm C}$ A GCA D GAC TACC GGA S AGT GGT H G GGA

Fig. 26D

813 2466 733 753 2286 773 793 2406 833 526 853 586 873 646 E GAG I ATT R AGG A GCA G GGG L TTA C TGT C TGC L TTA GGA A GCA E GAA I ATC \mathbb{W} H CAC H CAT LCTG K AAA Ç GTG H R CGA A GCC K AAA V GTG GGA L CTT L CTT S TCA A GCC Q CAA L TTA I ATA V GTG N AAT H F TTT TACA GGT R AGG C TGC E GAA A GCC H CAC TACT C TGT Q CAG C TGC R AGA D GAT I ATC E GAA V GTT A GCT D GAT L TTG V GTC V GTT E GAA W TGG R CGT H CAT GGA S AGT N AAT V GTT TACA L S AGT V GTG 999 G GGA L G V GTG FTTC E S TCT A GCA GAA S TCT S TCT S TCT 囝 E GAG A GCT H CAT A GCC E GAA C TGC FTTC LCTT TGT IJ Q CAG V GTT I ATT PCCT E GAA M ATG PCCC D GAT S TCT K AAA N AAC E GAG G GGG M ATG N AAT F S TCT I ATA G GGA M ATG R AGA G GGA L TTA D GAT D GAT A GCC K AAG A GCT G GGA S TACT A GCT E GAA H CTGTD GAT O TOTA W TGG V GTC C TGC C TGT GGA V GTC GGA A GCC A GCG R AGG 9 9 9 R AGG G GGČ W TGG V GTT S TCT C TGT S AGC N AAT L CTG R CGC N AAT I ATC S TCT T ÄCT TACT S AGC A GCT A GCA Q CAG R AGG MN AAT L TTA L CTA G GGA S TCG C TGT K AAA P S T ACA E GAA GGT G GGT r CIG ი მმმ MATG W , Q CAG DGAC R AGA N AAT

Fig. 26E

953 2886 973 2946 9008 1013 3066 1033 3126 1053 3186 893 933 E GAG V GTC D GAT AAA N AAT D GAC H V GTG N AAT × GGA E GAG GAA N AAT G GGA A GCA Y TAT Q CAA G GGG P CCA GGA G GGG GGA H CAT L CTC L TTA I ATC Ü E GAG D GAC D GAC T ACA L TTA I ATC C TGC C TGC GTA E GAA C TGT W TGG T C TGC C TGT P CCA I ATC \gt R AGA Q CAG H S TCA H CAT PCCC L TTG R AGA FTTTs TCC TACC PCCT L ი მმმ SAGC CTC \mathbf{F} A GCT H CAC K AAA D GAC A GCT R AGG A GCA P A GCC S AGT ရ ၁၅ H Q CAG IATC C TGT TACT 9 9 9 9 GGA C TGT C TGT N AAT L G GGG G GGA TACC L E GAG R CGC TACT V GTG WL CTG S AGC S TCA C TGT V GTT PCCA DGAC D GAC ရ ၁၅ S AGC V GTG TACA S AGC CTT V GTT E R CGA \mathbb{V} LCTC R CGT M ATG GGA A GCA G GGG P H CAC Q CAG T ACA V GTT CAA D GAT V GTC STCT H CAT DGAT G GGA R AGA S AGT C TGT C TGC L ITG V GTG 2 CAA TACA CTT C TGC R AGA N AAC I ATC Y TAT L CTA Y TAT V GTT V GTG L E D GAT V GTG PCCA R CGC I ATT R CGA N AAC V GTT GGA L S TCT D GAC LCTC PCCC S IATC I ATT CHT RCGT SFC SFC S TCT 자 2GG ၁ ည် ဂ G EGAG A GCC Y IAT S TCA TACT V GTA K AAA

Fig. 26F

1093 3306 1133 3426 1153 3486 1173 3546 1193 3606 1213 3666 1233 3726 13 66 9 342 33 V GTG E GAG WV GTC A GCT TACC S AGC S AGC P CCT V GTG GGG G GGG S $\frac{1}{1}$ C TGT I ATC $^{\rm C}_{
m TGT}$ V GTC H CAC H A GCA S AGC N AAC V GTT Q CAG I ATC F TTT E GAG A GCC H S D GAC R AGG R AGA G GGA I ATT GAT EGAG EGAG R AGG A GCT TACA D GAC R CGA N AAT \Box S AGC S TCT TACG K AAG E GAA EGAG GGC D GAT E GAG L CTG V GTC GGA GGA H TACT V GTC G GGG V GTG W TGG TACG DGAC TACA R AGG E GAA S AGC $^{\rm C}_{
m TGT}$ W TGG P CCA W TGG A GCC C TGC င TGC S AGT G GGC G GGC M ATG A GCC N AAT N AAC D GAC Y 9 990 W TGG L F S TCT D GAC F L H CAC CFC TACC Q CAG L GGT D GAT A GCC Q CAG R AGG D GAC GGG R AGG C TGC S TCT C TGT V GTG D GAT ი მმმ Γ N AAC ာ ညီင GGC Q CAG I ATC GGA L CTG W TGG A GCC Y TAT V GTG T ACA W TGG I ATT TACC \overline{W} C TGT F K AAG GGC T ACA I ATA 9 9 9 9 9 9 9 9 I ATC R CGC F V GTC G GGC S TCT S TCC W TGG CTG PCCC S E E A GCA L I ATC K AAG FTTC G GGG PCCT S TCA L ITG I ATA PCCT H CAT 9 960 Q CAA S TCA C TGC C TACG A GCC R AGA A GCC DGAC C TGT 9 9 9 9 Q CAG I ATC ი წმ K AAA T ACA L

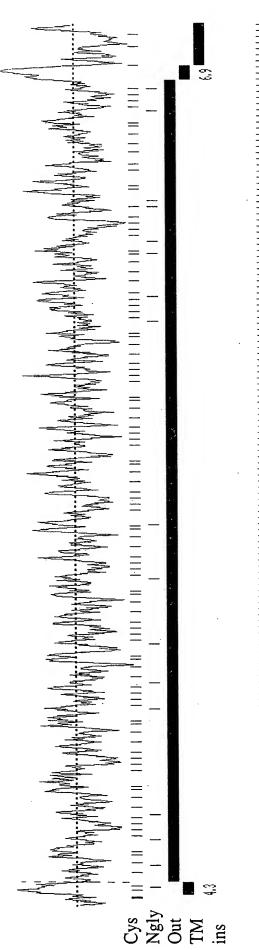
Fig. 26G

1253 3786 1273 3846 1293 3906 1333 4026 1353 4086 1373 1413 4266 1393 4206 13 66 39 TACC D GAC L CTG M ATG LCTG TACC S AGT L CFC D GAC Q CAG S TCA E GAG D GAT A GCT LCTC PCCC Д GGA D GAT G GGA M ATG CTGTS TCT K AAA L L CTG \mathcal{O} E GAG GGA V GTG 9 9 9 L ITG W TGG H CAT L CTG CFC O P S TCG ი მმმ R CGT TACA C TGT W TGG K AAA H V GTG GGC IATC Q CAG 9 9 9 9 K AAA F TTT Q CAA F T ACC R AGA W TGG L A GCC I ATC G GGA K AAA L TTA Q CAG Q CAG I ATA S G GGA H S TCT S AGT N AAT R AGA 9 990 Q CAG TACT C TGT C TGC S TCC V GTT E GAG D GAC GAG D GAT A GCA R AGG C TGT GGA L TTA R CGA 国 I ATT E H V GTG Q CAG W TGG V GTG C TGC LCTC C TGT W TGG V GTG G GGC L CTA GGC ML S TCT TACA I ATC E F TTT F A GCT A GCA TACG GGT I ATC EGAG A GCG S S TCA D GAT L TTA R AGG L W TGG R AGG V GTG E GAG E E H CAT A GCT F T ACC R AGA A GCC D GAC N AAT K AAG GGT R AGA L EGAG G GGG T ACC L R AGG GGA H S I ATT E D GAC S TCT L K AAA G GGA S S TCA F A GCA \overline{W} C TGC A GCC , DPL C TGT A GCC V GTT r CTG EGAG R CGG PCCA န ၁၁၁ A GCT D N AAT V GTT R AGA

Fig. 26H

1433 4326	1453 4386	1454 4389
GGT	K AAA	
H CAT	T ACA	
N AAC	A GCC	
CCC	S E TCT GAA	
T ACC	S TCT	
D GAC	A GCC	
D GAT	P CCT	
S TCA	CTT	
T ACC	V GTT	
R AGA	G GGA	
T ACA	Γ	
H G CAT GGG	L	
H CAT	s TCG	
PCCA	T ACA	
D GAC	D GAC	
E GAG	S AGC	
R AGA	A GCT	
K R AAG AGA (D GAT	
CTC	E GAA	
၁ ည	ာ ဌာ	* ရှိ

Fig. 261



1001 1041 1081 1121 1161 1201 1241 1281 1351 1361 1401 1441 굟 럻 鬈 짫 寰 泛 怼 쿓 쿒 寰 쿒 젎 쭇 氢 ₩ 麗 헕 鬈 쿬 恶 靐 텀 ಹ ₩...

Fig. 26J

20 30 40 50 60 70 CCCHQNLFSAVVTCILLLNSCFLISSFNGTDLELRLVNGDGPCSGTVEVKFQGQWG : .: .: .: .: :: :: :: :: :: :: :: :: ::	80 90 110 120 130 Hum. TVCDDGWNTTASTVVCKQLGCPFSFAMFRFGQAVTR-HGKIWLDDVSCYGNESALWECQHREWGSHN ::	140 150 160 170 180 200 Hum. CYHGEDVGVNCYGEANLGLRLVDGNNSCSGRVEVKFQERWGTICDDGWNLNTAAVVCRQLGCPSSFISSG :::::::::::::::::::::::::::::::::::	210 220 240 250 270 um. VVNSPAVLRPIWLDDILCQGNELALWNCRHRGWGNHDCSHNEDVTLTCYDSSDLELRLVGGTNRCMGRVE
30 40 CILLLNSCFLISSFNGTI ::::: : . CVLLLGTMVGGQ?	110 SQAVTR-HGKIWLDI : ::: SAYFGPGLGPIWLLY	170 180 (VEVKFQERWGTICD) ::: :: : : (VEVHSGEAWIPVSD) 150 160	240 250 GWGNHDCSHNEDVT:
20 30 CHQNLFSAVVTCILI : :: : ::: -HLSLRGLCVLI	90 100 VCKQLGCPFSFAMFRFG:::::::::::::::::::::::::::::::::::	160 GLRLVDGNNSCSGF :::::::: FVRLAGGDGPCSGF	220 230 PIWLDDILCQGNELALWNCRHF
10. Hum. MMLPQNSWHIDFGRCCC : : : ::	80 TVCDDGWNTTASTVVCK :: . ::::. TVDGYRWTLKDASVVCR 60	140 150 um. CYHGEDVGVNCYGEANL ::::::: WC1 YNHGRDAGVVCSG 120 130	210 220 VVNSPAVLRPIWLDDIL : HELFRESSAQVWAEEFR 190 200
Hum. WC1	Hum. WC1	Hum. WC1	Hum. WC1

Fig. 26K

340 CSGNESFLWDCRHSGT ::::::::: CSGAESFLWSCPVTAL 10	410 EQALVVCKQLGCPFSV ::: :: :: -QVLPQCNDSV 350	470 480 VICSDKADLDLRLVGAHSPCY ::: .: ::::CSDSRQLRLVDGGGPCA 370 380	550 IGNESNIWDCE .:.::.:: TGKESHVWRCP 450
280 340 340 310 320 330 340 LKIQGRWGTVCHHKWNNAAADVVCKQLGCGTALHFAGLPHLQSGSDVVWLDGVSCSGNESFLWDCRHSGT .:::::::::::::::::::::::::::::::::::	370 380 400 410 CSDGADLELRLADGSNNCSGRVEVRIHEQWWTICDQNWKNEQALVVCKQLGCPFSV ::: CS-GNQIQVLPQCNDSV 350	420 430 440 450 460 470 480 FGSRRAKPSNEARDIWINSISCTGNESALWDCTYDGKAKRTCFRRSDAGVICSDKADLDLRLVGAHSPCY:.: ::::::::::::::::::::::::::::::::	490 520 530 540 550 GRLEVKYQGEWGTVCHDRWSTRNAAVVCKQLGCGKPMHVFGMTYFKEASGPIWLDDVSCIGNESNIWDCE ::.:.::::::::::::::::::::::::::::::::
320 FAGLPHLQSGSDV :::: :: TPGGPHLVEEGDQ	390 VRIHEQWWT1	460 AKRTCFRRSI 	530 HVFGMTYFKE NATGSAHFGA
310 CGTALHFAG: :::::::: CGVAISTPG	380 SNNCSGRVE	450 LWDCTYDGK	520 KQLGCGKPM .::::: RQLGCGEALJ
300 310 WNNAAADVVCKQLGCGTALH :.:::::::::::: WSLANANVICRQLGCGVAIS 70 280 2	370 SADLELRLADG : GNQI	440 SISCTGNESAL ¹ :: ASEDSA-	510 WSTRNAAVVC :: ::: WDLDDARVVC
290 TVCHHKWNNA:::: ALCASHWSLAI	350 360 VNFDCLHQNDVSVICSDGADL :::::::::::: GGPDCSHGNTASVICS-GNQI 330 340	430 SNEARDIWIN; : TGSA	500 QGEWGTVCHDRI :: ::::: QGSWGTICDDGI 400
		420 430 FGSRRAKPSNEARD :: SQPTGSA	490 GRLEVKYQG ::.:. :: GRVEILDQG 390
Hum. WC1	Hum. WC1	Hum. WC1	Hum. WC1

Fig. 26L

560 570 580 590 600 610 620 cum. HSGWGKHNCVHREDVIVTCSGDATWGLRLVGGSNRCSGRLEVYFQGRWGTVCDDGWNSKAAAVVCSQLDC :::::::::::::::::::::::::::::::::::	630 640 650 670 680 690 PSSIIGMGLGNASTGYGKIWLDDVSCDGDESDLWSCRNSGWGNNDCSHSEDVGVICSDASDMELRLVGGS .: .: .: .: .: .: .: .: .: .: .: .: .: .	700 710 720 730 740 750 760 .um. SRCAGKVEVNVQGAVGILCANGWGMNIAEVVCRQLECGSAIRVSREPHFTERTLHILMSNSGCTGGEASL .::.:::::::::::::::::::::::::::::::::	770 780 800 810 820 830 um. WDCIRWEWKQTACHLNMEASLICSAHRQPRLVGADMPCSGRVEVKHADTWRSVCDSDFSLHAANVLCREL ::::::::::::::::::::::::::::::::::::
600 GRLEVYFQGRWGT :.::::::: GWLEVFYNGTWGS 500	660 670 680 ESDLWSCRNSGWGNNDCSHSEDVGVICSDA:::: DTSLWQCPSDPWNYNSCSPKEEAYIWCADS 560 570 580	720 730 740 GILCANGWGMNIAEVVCRQLECGSAIRVSREPHFTE :::.:::::::::::::::::::::::::::::	810 CSGRVEVKHADTWI :::::::: CSGRVEVHSGEAW 700
590 LRLVGGSNRCS :::::.:. LRMVSEDQQCA	660 DGDESDLWSCRÜ ::: RKTDTSLWQCP	730 NIAEVVCRQLECGS . : : : : : : : : : : : : : : : : : : :	800 810 RQPRLVGADMPCSGRVEVI ::::::::::::::::::::::::::::::::::::
580 IVTCSGDATWG: :::: GVICSEFLA	650 YGKIWLDDVSCI . :.: : FRPQWVDRIQCI 0 550	720 GILCANGWGMN ::: GTICDDRWDLD 610	790 NMEASLICSAH :::. QEDAGVICSGF 680
560 570 SGWGKHNCVHREDV ::::::::::::::::::::::::::::::::::::	630 640 SSIIGMGLGNASTGY .:: .: .: .: .: .: .: .: .: .: .: .:	700 710 SRCAGKVEVNVQGAV .::.: :: SRCSGRVEILDQGSW 600	770 780 DCIRWEWKQTACHL : ::::::
50 Hum. HSC WC1 SRC	Hum. PS6 WC1 GD6	70 Hum. SRG .: WC1 GRG	Hum. WDC:

Fig. 26M

850 860 870 880 890 900 SLSVGDHFGKGNGLTWAEKFQCEGSETHLALCPIVQHPEDTCIHSREVGVVCSRYTDVRLV-NG : : : : : : : : : : : : : : : : : : :	910 920 930 940 950 960 970 KSQCDGQVEINVLGHWGSLCDTHWDPEDARVLCRQLSCGTALSTTGGKYIGERSVRVWGHRFHCLGNESL ::::::::::::::::::::::::::::::::::::	980 990 1000 1010 1020 1030 1040 LDNCQMTVLGAPPCIHGNTVSVICTGSLTQPLFPCLANVSDPYLSAVPEGSALICLEDKRLRLVDGDSRC : .:.::::::::::::::::::::::::::::::::	1060 1070 1080 1090 1100 1110 YHDGFWGTICDDGWDLSDAHVVCQKLGCGVAFNATVSAHFGEGSGPIWLDDLNCTGTESHLWQC: ::::::::::::::::::::::::::::::::::
850 3DHF : HMPF	910 920 KSQCDGQVEINVLGHU :::.::::::::: TSQCEGQVEMKISGRU	980 990 LDNCQMTVLGAPPCI] : .:.:.::: LWSCPVTALGGPDCS] 880	1050 1060 um. AGRVEIYHDGFWGTI(.::::: :::: WC1 GGRVEILDQGSWGTI(
Hum. WC1	Hum. WC1	Hum. WC1	Hum. WC1

Fig. 26N

1120 1130 1140 1150 1160 1170 1180 PSRGWGQHDCRHKEDAGVICSEFTALRLYSETETESCAGRLEVFYNGTWGSVGRRNITTAIAGIVCRQLG ::::::::::::::::::::::::::::::::::::	1190 1200 1210 1220 1230 1240 um. CGENGVVSLAPLSKTGSGFMWVDDIQCPKTHISIWQCLSAPWERRISSPAEETWITCEDR :::::::::::::::::::::::::::::	1260 1270 1280 1290 1300 ECSGRVEIWHAGSWGTVCDDSWDLAEAEVVCQQLGCGSALAALRDASFGQGTGTIW ::::::::::::::::::::::::::::::::::::	1310 1320 1330 1340 um. LDDMRCKGNESFLWDCHAKPWGQSDCGHKEDAGVRCSGQSLKSLNASSGHLALI ::: :::::::::::::::::::::::::::::::
1170 GTWGSVGRRN :::::: GTWGSVCRSP 1060	1240 SSPAEETWITCEDR :::::::: CSPKEEAYISCEGR 1130	1290 QLGCGSALAA :::::::: QLGCGQALEA 1200	1350 QSLJ ::: TAGTRTTSNSLJ 1270
1160 1170 CAGRLEVFYNGTWGSVGRRNIT:::::::::::::::::::::::::::::::::::	1190 1200 1210 1220 1230 1240 CGENGVVSLAPLSKTGSGFMWVDDIQCPKTHISIWQCLSAPWERRISSPAEETWITCEDR- ::: .: :::::::::::::::::::::::::::::	1280 JLAEAEVVCQ :::::::: SLAEAEVVCQ 1190	SG :: SGVRTTLPTT 1260
1150 RLYSETETES(:. :: . RMVSEDQQ(1040	1210 1220 13 GSGFMWVDDIQCPKTHISIWQCLSAPWI :: ::::::::::::::::::::::::::::::::::	1270 SWGTVCDDSW] ::::::::: SWGTVCDDSW	1330 1340 DCHAKPWGQSDCGHKEDAGVRCSG ::::::::::::::::::::::::::::::::::::
0 1140 1150 DAGVICSEFTALRLYSETETE ::::::::::::::: DAGVICSEFLALRMVSEDQQ- 1030 1040	1210 GFMWVDDIQC ::: ::: RPRWVDLIQC 1100	1260 GRVEIWHAGS :::::::::	1330 AKPWGQSDCC : ::::: AEPWGQSDCR 1240
1130 ;QHDCRHKEDAG .::::::::: ;RHDCRHKEDAG	1200 SLAPLSKTGS :: NTSVGLREGS 1090	1250 IRVRGGDTECS .:.::::: EKLRLRGGDSECS	1320 GNESFLWDCH : ::::: GRESSLWDCV 1230
	1190 m. CGENGVVS ::: C1 CGDSGSLN 1080	 CTDR 150	1310 1320 1330 1340 Hum. LDDMRCKGNESFLWDCHAKPWGQSDCGHKEDAGVRCSG- ::: :::::::::::::::::::::::::::::::
Hum. WC1	Hum. WC1	Hum. WC1	Hu: W

Fig. 260

	6-3					_		_						
1410	SLEENLFHEME	•	WC1 LGSLLFLVLVILVTQLLRW-RAERRALSSYEDALAEAVYEELDYLLTQKEGLGSPDQMTDVPDENYDDAE			DTSLLGV	•	WC1 EVPVPGTPSPSQGNEEEVPPEKEDGVRSSQTGSFLNFSREAANPGEGEESFWLLQGKKGDAGYDDVELSA						
	EENI	•	/PDEN	1350	1440	DI	••	AGYDD	1420					
	SI	•	QMTD	Ä				KKGD/	7,					
			GSPD	10		1 1 1		VLLQG	0,					
1400	TRRRG-	••	QKEGI	1340		DAS	••	EESFV	1410					
\leftarrow	L:	••	YLLT			HGCE	••	PGEG						
	SS		YEELI	1330	1430	DTPNHGCEDAS-	••	REAAN	1400					
	PLRV	••	AEAV			1		LNFS						
1390	Hum. LSSIFGLLLLVLFILFLTWCRVQKQKHLPLRVS-	••	YEDAI	1320		D	•	QTGSF	1390					
	 		MLSS			TRTS	•	WRSS						
	RVQK-	:	RAERF	1310	1420	LKREDPHGTRTSD-	•	EKEDG	1380					
80	LTWC	•	LRW-	⊣	Ä	-LKR		EVPP	H					
138	CFILE		LVTQI	0		1		GNEE	0.0					
	LLLV	•	VLVI]	1300		i 		PSPS(1370		- K		FS FS	
1370	SIFGL	••	SLLFL			1		VPGT		1450	Hum. LPASEAT-K	•••	WC1 LGTSPVTFS	
	. LSt	••	1 LG5	1290		Hum. TC		L EVE	1360	14	LP?	•	L LG1	1430
	Hum		MC.			Hum		WC			Hum.		WC	

Fig. 26P

<pre>Hum. ATGATGCTGCCTCAAAACTCGTGGCATATTTGATTTTGGAAGATGCTGTCATCAGAACCTTTTCTCTG</pre>	80 100 110 120 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140 140	150 160 170 180 200 210 GTTGAGGCTGGTCAATGGAGCTCCCTGCTCTGGGACAGTGGAGGTGAAATTCCAGGGACAGTGGGGG : ::::::::::::::::::::::::::::::	220 230 240 250 260 270 ACTGTGTGATGATGGGTGGAACACTACTGCCT-CAACTGTCGTGTGCAAACAGCTTGGATGTCCATTT ::::::::::::::::::::::::::::::::
Hum.	Hum. (Hum. C	Hum. 7

Fig. 26Q-1

Fig. 26Q-2

620 3GAGTTGT	: .: .: : GCAGAGTTGGG 520	690 FGGCACT-	CTCTT	760 FAACTTGT : GG	830 AGAGCTGA ::: CCCTG- 650
610 ATTTCTTCT	:.: GCAG 520	680 CCAGGGAATGAGT'	-CCTGGGACATGAG- 550 560	40 AATGAGGATGTCACAT' ::::::::	820 GGGGAGAGT. : 'G
600 ATCTTCTTT	::::::: ATCATCTGT- 510	670 FTATGCCAGG	1 1 1	740 CACAATGAGG : :::: CTGAAG	800 TGGAACTAACCGCTGTATGG :::: :: ::.:: -GGGTCTGCCC-CAGAGTG- 640
590 AGGATGTCC	7 - 1	660 GATGACATT:	1	730 7 TCATGACTGCAGTCAC::::::::-::	800 GTGGAACTAA ::::- GGGTCTGG
580 GCAGGCAACT	::: -CAG	650 CATTTGGCTG	AAGGCTG 540	700 710 720 730 740 750 760 760	770 780 800 810 830 TATGATAGTAGTGAACTAAGGCTTGTAGGTGGAACTAACCGCTGTATGGGGAGAGTAGAGCTGA ::::::::::::::::::::::::::::::::::::
570 GCCGTGGTGT	::	640 TATTGCGCCC	 	710 ATCGTGGATG(: : GCC	780 FCTTGAACTAA : ::.::
560 GAATACTGCTG	.::::::: WC1 TCACACTTGCCACTGCC- 490 500	630 AGCCCTGCTGT		710 CTGGAATTGCAGACATCG :.:: ::: : CAGAGAGTCCAGT-GCC- 570 580	770 780 TATGATAGTGATCTTGAACTA ::::::::::::::::::::::::::::::::::
560 570 580 590 600 600 620 Hum. ACTTGAATGTGCGAGTAGGAACTAGGATGTCCATCTTTTTATTTCTTGGAGTTGT	.: WC1 TCACA(630 640 650 660 670 690 690 Hum. TAATAGCCCTGCTGTTTTGGCTGGATGACATTTTATGCCAGGGAATGAGTTGGCACTTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTGGCACTTTTATGCCAGGGGAATGAGTTTGGCACTTTTATGCCAGGGGAATGAGTTTGGCACTTTTATGCCAGGGGAATGAGATTGGCACTTTTATGCCAGGGGAATGAGAGTTGGCACTTTTATGCCAGGGGAATGAGAGTTGGCACTTTTATGCCAGGGGAATGAGAGTTGGCACTTTTATGCCAGGGGAATGAGAGTTGGCACTTTTATGCCAGGGGAATGAGAGTTGAGAGTTGAGAGTTGAGAGAGA	 WC1 TTGTGGC- 530		Hum. TATGA: :.::: WC1 TGTGA(610

Fig. 26Q-3

900 STATGCAA : .:::.	GTTCAGCAT 700	ATGTTGTA	 этссасат 760	1040 AACCGTCA	ATGCCA	0 TGGAACTGCGACT .:: .: :: GACCAC-ACT 880
880 890 900 AATGCTGCAGCTGATGTCGTATGCAA	TTT	YSU TCAGGGTCTG1		1030 3ACATTCCGG	::: :::: :::: ::::::::::::::::::::::::	1100 AGATTTGGAA(.:
880 ACAATGCTGC: .: :::: :	TCTGCT-C2 65	ysu rcatitigcag: 	::: :CTC-TCAG-TG: 740	1020 rggacrgca	:::: :::: CCC-ACTGGAGTCTGG) 810	1090 CAGATGGAGCZ : ::: CCCCCGGAG
860 870 CGTATGCCACCATAAGTGGAAC::::::::::::::::::	2ACA-GTGGA: 680	940 TGGCTTGCCT		1010 ATCTTTTCTT:	. ::: : : : : : : : : : : : : : : : : :	1060 1070 1080 CATCAAAACGATGTGTCTGTGATCTGCTC ::::::::::::::::::::::::::::::::
860 GTATGCCACC	GTGTCACC 670	930 TTCACTTCGC	GTCCGGCTCATGACAA-AC-GGCT	1000 CGGTAATGAA	::: TGGAGAGCGC' 790	1070 GATGTGTCTC .:: .:: TGTGGAGTTC
850 GTGGGGGACC	GGGGGCAC 660	920 Ggaaccgcac	AGTCCGGCTC 720	990 TCTCCTGCTC	::: TCTG-GACAA' 780	1060 rcarcaaaac :::::.:::
840 850 870 870 880 900 Hum, AAATCCAAGGAAGGTGGGACCGTATGCCACCATAAGTGGAACAATGCTGCAGCTGATGTCGTATGCAAAAAAAA	TCCA	910 950 950 970 970 970 970 970 970 970 970 970 97	.:. ACT	980 1030 1000 1010 1020 1030 1040 TGGCTTGATGCTCCTGCTCAGATCTTTTCTTTTGGGACTGCAGACATTCCGGAACCGTCA	:.: GAACATT7 770	1050 1060 1070 1080 1090 1100 1110 ATTTTGACTGTCTTCAAAACGATGTGTCTGTGATCTGCTCAGATGGAGCAGATTTGGAACTGCGACT ::::::::::::::::::::::::::::::::::::
Hum.	WC1	Hum.	WC1	Hum.	WC1	Hum.

Fig. 26Q-4

Fig. 26Q-5

1460 rgrrargg :: :: rgcgccgg 1160	GG-AATGC :::: GACGATGC	O TTTTAAAG ::: CTTCGGGG	0 SACTGTGA :: AGGTGCCC 0
1450 ATAGCCCCTG .::::: GGTCCCTG 1150	1520 GAGCACAA(:: : GGAC-CTG(1590 ATGACCTAT' : : TCTGCTCAC' 1290	1660 ATATCTGGG : .: ::. ACGTGTGGA(
1400 1410 1420 1430 1440 1450 1460 1460 1460 1460 1460 1460 1460 146	1470 1480 1490 1500 1510 1520 GAGATTGGAGGTGAAAATACCAAGGAGGAGGGGACTGTGTGTCATGACAGATGGAGCACAAGG-AATGC ::::::::::::::::::::::::::::::::::::	1530 1540 1550 1560 1570 1580 1590 Hum. A-GCTGTTGTGTAAACAATTGGGATGTGGA-AAGCCTATGCATGTTTTGGTATGACCTATTTTAAAG :::::::::::::::::::::::::::::	1600 1610 1620 1630 1640 1650 1660 Hum, AAGCATCAGGACCTATTTGGATGACGTTTCTTGCAAATGAGTCAAATATCTGGGACTGTGA ::::::::::::::::::::::::::::::::::
1430 .cctaaggctr: :::.::	1500 ACTGTGTGT(:::::::::::::::::::::::::::::::	1570 AGCCTATGCZ :::: AGCCCTCA-Z	1640 TTGCATTGGZ :::: .:: CTGCACAGGZ
1420 1430 AGGCAGATCTGGACCTAAGG::::::::::::::::::::	1490 AGAGTGGGGG ::::: CTCCTGGGGC	1560 3ATGTGGA-A : :::::: 3CTGTGGAGA 1260	1630 ATGACGTTTC : .:: . ACAACTTGAA 1330
1410 1420 1430 rcrgaraaggcagarcraagg :.: ::::::::::::::::::::::::::::::::::	1480 AATACCAAGG; :::::: TTGACCAGGG(1550 AACAATTGG(::.::: GGCAGCTGG(1620 TTTGGCTGG : ::: ::: TCTGGTTGG2
1400 GTAATTTGTT A	1470 SAGATTGGAGGTGAA ::::::::::: SAGAGTGGAGATCCT	1540 GCTGTTGTGTGTA :: :: :: :: : GC-GTGGTGTGCA	00 1610 AGCATCAGGACCTA :::::::::: AGGATCAGGGCCCA
1 Hum. CTGGAGT :: WC1 CTCAGA- 1110	Hum. GAGAT :::: WCl GAGAG	1530 Hum. A-GCT :: WC1 CCGC-	1600 Hum. AAGCA' ::: WC1 CAGGA'

Fig. 26Q-6

۵L	3. AC	ā : ā c	₽1
0 1680 1690 1700 1710 1720 1730 ACAGTGGATGGGAAAGCATAATTGTGTACACAGAGGATGTGATTGTAACCTGCTCAGGTGATGCA : :::::::::::::::::::::::::::::::::::	740 1750 1800 ACATGGGGCCTGGTGGCCGCCAGCAACCGCTGCTCGGAAGACTGTACTTTCAAGGAC : : : : : : : : : : : : : : : : : : :	1810 1820 1830 1840 1850 1860 1870 GGTGGGCCACAGTGTATGACGCTGGAACAGTTAAAGCTGGACTG ::::::::::::::::::::::::::::::::::::	.880 1890 1900 1910 1920 1930 1940 CCCATCTTCTATCATTGGCATGGGTCTG-GGAAACGCTTCTA-CAGGATATGGAAAATTTTGGCTCGATG:.: .: .: .: :: :: :: :: :: :: :: ::
'30 'GGTG. : . .GGA(O TCA : CAA	0 CTG :: CTT	1940 GGCT :: : GGGT
1730 'CAGG' ::: 'CAG-	1800 CTTT ::.	1870 CAGC' ::::	1 ATTTG . :: CAGTG
. : : : :	TGTA : :. TTTT 1490	TAGC :: CAGA 1560	1
0 4 4 0	0 AGG: : AAG:	0 6 6 7 7 7 7 7 7	1930 'GGAAA. .:. 'AGGC(
1720 GTAA(:::: GTCA(1790 TGGA(::::	1860 GGTG : . :	1: ATATG .:.:. TTTTA(
ATTT.	AGAC .:.: TGGC 1480	CTGT(: : : : : : : : :	GAT: :::
rene : : rece	3GAA 3GGT 1	CAGC	1920 'A-CAG : ::
1710 GGAT ::: GGAC 1410	1780 TCGG(: :	1850 CTGC. ::: CTGT	15 CTA- : AGAC
AGA(CTGC' :: GTGT(AAAG(:	CTTCT ::: CTTAG
CAG ::. CAA	CGC:	. : . : .ACA	O ACG · ·
1700 TACA(::: GACA(1770 CAACO : :	1840 AACA . : . GAAG	1910 3GAAA :
STG1	GCAGC AGGAC	1 CTGG2 : . : . CATGC	1 FG-GG: : : FTCTG
ATT(: : ACT(CGG(:- TGA(1,4	39C.	6 : D
1690 CATA :: : CACA 1390	1760 TGGG ::::	1830 TGAC : . : :	1900 ATGG(TCAA(
1 AGC :::	1 CTGGT :::: ATGGT	1 GTGAT : .: GCCGT	19 GCAT :. :CCTC
3GA.24	3GCT :::: 3GAT 14	3TGT :: 7TGC 15	ATTG
1680 ATGGC::::	1740 1750 ACATGGGGCCTGAGG : :::::::	0 1820 TGGGCCACAGTGTG :::::::::::::::::::::::::::::::::	880 1890 CCCATCTTCTATCAT :.: TGGGGACAGTGGA
1 GGA 1	1. GCC: .:: CCC:	18 CACZ :: CAGZ	189' TCTAT' .:.: ACAGT' 1580
AGT. : CGG	GGGGC :::: -GGCC 1440	GGGCA(::::::::::::::::::::::::::::::::::	TCT
1670 ACAC : : TTCC 1370	1740 ACATG :-	1810 GGTG :: CCTG	1880 CCCA TG
1670 1680 1690 1700 1710 1720 1730 Hum. ACACAGTGGATGGGAAAGCATAATTGTACACAGAGAGGATGTGATTGTAACCTGCTCAGGTGATGCA . : :: :: :: :: :: :: :: :: :: :: :: ::		1810 1820 Hum. GGTGGGGCACAGTGT ::::::::::::::::::::::::::::::::::	18 lum. C WC1 I
Hur	Hum. WC1	Hur	Hum. WC1

Fig. 26Q-7

2010 3AAATAATGAC :.:::::: 3GAATTACAAC 1700	2080 CTTGTGGG :: :::. CTGGTGGA	2150 GCTAAT : : :	0 2220 TCAGGGTCTCCA : ::: ::: -CCTGGACGCCA 1900
- 66 CTT	2020 2030 2040 2050 2060 2070 2080 .um. TGCAGTCACAGTGAAGATGTTGTGTTCTGATG-CATCGGATATGGAGCTTGTGGG ::::::::::::::::::::::::::::::	2090 2100 2110 2120 2130 2140 2150 Hum. TGGAAGCAGCTGCTGGAAAAGTTGAGGTGAATGTCCAGGGTGCCGTGGGAATTCTGTGTGTTAAT ::::::::::::::::::::::::::::	H 4. I
2000 rgggrg- : :. rcrgacc	ratgga : :: :aga	STGGGA ::: FGGGGC	GGTCTG :: SAGAAG
1990 200 CATGCAGGAACAGTGGGT::::::::::::::::::::::	230 2040 2050 2060 AGATGTTGGAGTG-ATCTGTTCTGATG-CATCGGATA ::: ::::::::::::::::::::::::::::::::	2130 GGGTGCCGT ::: :: GGGCTCCTG	2160 2170 2180 2190 2200 2200 2200 2200 2200 2200 220
1 TCATGCA :. ::: -CTGGCA	2050 TTCTGATG : :: .: GTGTGCAGA	2120 ATGTCCA :::::: TTGACCA	2190 GCAACTT ::::: GCAGCTG
1980 TCTCTGG' ::::: TCTCT	2 ATCTGTT :::::: ATCTGGT	10 TGAGGTGA ::::: GGAGATCC 1800	80 GTTTGCAG :: :::. GTGTGCAA 1870
1970 AGTCAGA .:.:: TGACACC' 60	2040 GGAGTG: .: :. AGCCTAT	2110 AAAAGTTG; .:.::: GAGAGTGG;	2180 GAAGTTGT' ::::
1970 3GAGATGAGTCA ::::::::::::::::::::::::::::::::::::	2030 AAGATGTT :::.: AAGGAGGA 1720	2100 3TGCTGG : :::: 3CTCTGG	2170 CATTGCT ::: CGATGCC 1860
1960 TGTGATG ::::: AGTGTCG	2(CAGTGAZ	190 :AGCAGGT(:::: :GGTCGCT(1780	.60 :GAATGAAC : :::: :ACCTGGAC
1950 1960 1970 198 um. ATGTTTCCTGTGATGAGATGAGTCAGATCTCTG	2020 GCAGTCACAG :: :.:. 1710	2090 rggaagcagcaggrg ::::::::::::::::::::::::::::::::::	2160 GCTGGGGAZ :::::::
Hum. A WC1 -	Hum. I WC1 I	Hum. TC : WC1 TC 1770	Hum. G WC1 C

Fig. 26Q-8

	•		
2230 2240 2250 2260 2270 2280 um. GAGA-GCCTCATTTCACAGAA-AGAACATTACACATCTTAATGTCGAATTCTGGCTGCACTGGAGGGGA	2310 2320 2330 2340 2350 TTGTATACGATGGAAACAG-ACTGCGTGTCATTTAAATATGGAAGCAAG :: ::::::::::::::::::::::::::::::::	2380 2400 2410 2420 CCACAGGCAGCCCAGGCTGAGCTGATATGCCCTCTGGACGTGTTGAA . :: ::::::::::::::::::::::::::::::::	2450 2460 2470 2480 2490 ACATGGCGCTCTGTCTGATTTCTCTCTTTCATGCTGCCAATGTGCT .::::::::::::::::::::::::::::::::::::
2270 CGAATTCTGG .:: ATGAAGTGAA	2340 CGTGTCATTT : :: : . C-TGCAATCA	2410 TATGCCCTGC' ::::: TGGACCCTGC' 2090	2480 TCTCTTCATG .:.:: : . ACACTCCCCA
2260 ATCTTAATGT::::::: ATCTGGCTGG.	2330 AACAG-ACTG :. :: 3GCAACACAA	2400 FTGGAGCTGA :::::::: CTGGAGGAGA 2080	2470 FTCTGATTTC' :: :: FGGAAACTTC 2150
2250 2260 -AGAACATTACACATCTTAATG' .::::::::::::::::::::::::::::::::::::	2320 rgggagTgga ::::::: rggggaTggC	2390 CCAGGCTGG' : :::: 2070	2460 CTGTCTGTGA' :.:: ::: CAGTGTCTGA' 2140
2240 :ACAGAAAG2 ::::::::: :TCGGGACGGG2	2310 TTGTATACGA: :: STGCCCTTCC: 2000	2380 CCACAGGCAGO : ATTTGTGC	2450 2460 2470 2480 2490 ACATGGCGCTCTGTGATTCTGATTTCTCTCTTCATGCTGCCAATGT ::::::::::::::::::::::::::::::::::
2230 3CCTCATTTC: : :: :: 1920	2300 CTCTCGGGA . : :: AAGTATGGAG		
2230 Hum. GAGA-GCCTCATTTC .:. :::: WC1 CTGTCTCTTCCTTCT 1910 1920	2290 Hum. AGCCTC . :: WC1 GTCCC?	2360 2370 Hum. TTTGATCTGCTCAGC : :::::::: WC1 AGTCATCTGCTCAGG 2050 2060	2430 2440 Hum. GTGAAACATGCAGAC :::::::::::: WC1 GTGCATTCTGGAGAA 2110 2120

Fig. 26Q-9

Hum.		2510 ATTAAATTGT	2520 GGAGATGCCA	2500 2510 2520 2530 2540 2550 2560 GTGCAGAGAATTGTGGAGATGCCATATCTCTTTTTGGAGAAAAGGG-AATGG	2540 rgrgggagarc	2550 SACTTTGGAAA	2560 AGGG-AATGG
: WC1 G' 2180	GTGCAGAGC	:::: :TGGGATGT 2190	:: :: :: GGCAAGGCTG 2200	::::::::::::::::::::::::::::::::::::::	:: :: :: FGGGACACATG 2220	:.:::. GCATTCAGAGA 2230	:: :::::::::::::::::::::::::::::::::::
Hum.		2580 GGCCGAAAAG :::::::::	2590 TTCCAGTGTG ::::::	2570 2620 2630 2600 2610 2620 2630 TCTAACTTGGGAAAAGTTGAAGGGAGGAGTGAAACTCACCTTGCATTATGCCCCATTGTTCAA : :::::::::::::::::::::::::::::::	2610 AACTCACCTTG . :: :::	2620 CATTATGCCCC .: ::::	2630 CATTGTTCAA :: :: :
) >		2260	2270	2280	2290	2300	2310
Hum.	2640 CATCCGGAA	2650 GACACTTGTA	2660 TCCACAGCAG	2640 2650 2660 2670 2680 2690 2700 CATCCGGAAGATCCACACAGAGAAGTTGGAGTTGTCTGTTCCCGATATACAGATGTCCGAC	2680 3TTGTCTGTTC	2690 CCGATATACA(2700 SATGTCCGAC
WC1		:.::::: GGCACATGTC 2330	:::::::: TCCACAGTGG 2340	.:::::::::::::::::::::::::::::::::::::	::::::::: FTTGTCTGTTC 2360	.:: ::: AGTGTACACACA 2370	::.:::: GAAGTCCAGC 2380
Hum.	2710 TTGTGAATGGCAAATCC-	2720 GCAAATCC	2730 -CAGTGTGAC	2730 2740 2750 2760 2770 -CAGTGTGACGGGCAAGTGGAGATCAACGTGCT-TGGACACTGGGGCTCAC	2750 AGATCAACGTG	2760 3CT-TGGACAC	2770 rgggcrcac
WC1		.:: ACGGCACCTC 2400	::.:::: TCAATGTGAG 2410	::::::::::::::::::::::::::::::::::::::	:::: ::: \aGAT-GAAGAT 2430	:: ::::. CTCTGGACGA: 2440	::::: FGGAGAGCGC 2450

Fig. 26Q-10

Fig. 26Q-11

Hum. WC1 Hum.	
WC1	GGGGGCGGTCCCTGCGGGGGGAGTGGAGTCCTTGACCAGGGCTCCTGGGGCACCATCTGTGATG 2810 2870 2850 2850 2870
Hum. WC1	GCTGGGACCTGAGCCACGTGGTGTCAAAAGCTGGGCTGTGGAGTGGCCTTCAATGCCACAGGACTGGAGTGGCCTTCAATGCCACATGCCACGACTGGACTGGAGTGGCCTTCAATGCCACAGGAAGCCTGGAAGCCTTCAATGCCAATGCCAGGCAGCTGGGAAGCCCTCAATGCCAATGCCAATGCCAATGCCAATGCCAATGCCAATGCCAATGCCAATGCAATGCCAATGCCAATGCAATGCCAATGCCAATGCAATGCCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGAATG
Hum.	E⊣
WC1	::::::::::::::::::::::::::::::::::::::

Fig. 26Q-12

Hum. WC1	3340 Hum. CACTTGTGGCAGTGC :::::::::: WC1 CACGTGTGGAGGTGC 3020 3030	3350 cccrrccccc :::::::::: cccrrcccccc	3360 3GCTGGGGGCA(:::::::::: 3GCTGGGGGCGG	3370 AGCACGACTGC ::::::::: GGCACGACTGC	3380 AGGCACAAGG ::.::::: AGACACAAGG	3350 3360 3370 3380 3390 3400 CCTTCCCGCGGCTGGGGCACGCACGGCACAAGGAGGACGCAGGGGTCA ::::::::::::::::::::::::::::::::::::
Hum. WC1	3410 TCTGCTCAGAATTCA(::::::::::: TCTGCTCAGAGTTCC' 3090	3420 34 ACAGCCTTGAGGCT .::::::::::::::::::::::::::::::::::::	3430 GGCTCTACAGE:::::::::::::::::::::::::::::::::::	3440 rgaaactgaaa :::: :: rgag-cgagga 3120	3450 CAGAGAGCTG: : . : : : : CCAGCAG-TG: 3130	3420 3460 3470 3470 3460 3470 3470 3470 3470 3470 3470 3470 347
Hum. A(WC1 G(3150		3490 GGACCTGGGGG ::::::::: GGACCTGGGGG	3500 CAGCGTCGGC? ::: ::: :: CAGTGTCTGCC	3510 AGGAGGAACAT : :: ::: GCAGCCCCAT 3190	3520 CACCACAGCC? : : : : : : : : : : : : : : : : :	3480 3490 3500 3510 3520 3530 3540 AGTCTTCTATAACGGGACCTGGGCAGCCAGGCAGGCATTGTG .:::::::::::::::::::::::::::::::::
Hum. T(: WC1 T(3220	3550 TGCAGGCAGCTGGGC :::::::::::: TGCAGACAGCTTGGA 20 3230	3560 CTGTGGGGAG2 ::::::: ATGTGGGGAC2 3240	3570 AATGGAGTTG1 :.::: .:: AGTGGAAG7 3250	3580 rcagccrcgcc ::. : .:.: rcr-caacacc	3590 CCTTTATC7 :: :. :: TCTGTTGGTC7	3550 3560 3570 3580 3590 3600 TGCAGGCAGCTGTGGGGAGAATGGAGTTGTCAGCCTCGCCCCTTTATCT-AAGACAGGCTCTG ::::::::::::::::::::::::::::::::

Fig. 26Q-13

., E D	3610 GTTTCAT : : : GACCCCG 3290	3620 GTGGGTGG2 :::::::::::::::::::::::::::::	3630 ATGACATTCAG :: . :::: ATTTAATTCAG 3310	3640 STGTCCTAAAA :::: :::: STGTCGGAAAA 3320	3650 CGCATATCT : :: :: TGGATACCT 3330	3660 CCATATGGCAC : :::::: CTCTCTGGCAC	3610 3620 3640 3650 3640 3670 Hum. GTTTCATGTGGATGACATTCAGTGTCCTAAAACGCATATCTCCATATGGCAGTGCCTGTCTGCCCC :. ::::::::::::::::::::::::::::::::
(')	3680 tum. ATGGGAG :::::: WC1 ATGGAAA 3360	680 3690 ATGGGAGCGAAGAATC :::::: ::: ATGGAAATACAGTTC? 3360 3370	3700 CTCCAGCCCAG : :::. ATGCTCTCCAA 3380	3700 3710 3720 3730 CAGCCCAGCAGAGACCTGGATCACATGTGAAGATAGAATA : ::::. :::::::::::::::::::::::::::	3720 CTGGATCAC ::.:::: CTACATCTC 3400	3730 ATGTGAAGAT? :::::::::	3680 3690 3700 3710 3720 3730 3740 Hum. ATGGGAGCGAAGAATCTCCAGCCCAGCAGAAGACCTGGATCACATGTGAAGATAGAATAAGAG- ::::::::::::::::::::::::::::::
ium. WC1	 TGTCCAA 3430	TGC ::: TGTCCAACTGCTGCCC 3430	3450	 .cagagagaag	 crccccrc	3750 -GTGGAGGAG <i>A</i> : :::::: AGGGGAGGAGA	3750 3760GTGGAGGACACCGAGTGCTCTG : :::::::::::::::::::::::::::::::::::
1	3770 3780 im. GGAGAGTGGAGAT(::::::::: ic1 GGCGGGTGGAGGT(3500 351(3780 GGAGATCTC :::::::	3790 3GCACGCAGGC ::::::: 3GCACAACGGC	3800 :TCCTGGGGCA :::::::::::::::::::::::::::::::::	3810 CAGTGTGTG::::::::: CCGTGTGCG:	3820 ATGACTCCTGC ::::::::: ATGACTCCTGC	3770 3830 3800 3810 3820 3830 Hum. GGAGAGTGGAGGCTCCTGGGGCACAGTGTGTGATGACTCCTGGGACCTGGCCGAGGC ::::::::::::::::::::::::::::::

Fig. 26Q-14

3840 3850 3860 3870 3880 3890 3900 Hum. GGAAGTGGTGTCAGCTGGGCTGTGGCTCTGGCTGCCCTGAGGGACGCTTCGTTTGGCCAG :::::::::::::::::::::::::::::::::	3910 3920 3930 3940 3950 3960 3970 Hum. GGAACTGGAACTTGGATGACATGCGGTGCAAAGGAAATGAGTCATTTCTATGGGACTGTCACG ::::::::::::::::::::::::::::::::::	3980 3990 4000 4010 4020 4030 4040 Hum. CCAAACCCTGGGGACAGGACTGTGGACACAAGGAAGATGCTGGCGTGAGGTGCTCTGGACAGTC : .:::::::::::::::::::::::::::::::::::	4050 4060 4070 4080 4090 um. GCTGAAATCACTGAATGCCTCCTCAGGT-CATTTAGCA-CTTATTTATCCA . : : : : : : : : : : : : : : : : : :
3840 Hum. GGAAGTG ::.:: WC1 TGAGGTG 3570	3910 Hum. GGAACTG ::::::: WC1 GGAAATG	3980 Hum. CCAAACC : .:.:: WC1 CGGAGCC	Hum. G WC1 AACATTG

Fig. 26Q-15

Hum. G- : WC1 GG	G : GGGGTTC 3850	4100 GTATCTT-: : :: GGGGTTCTCTGCCTTA! 3850 3860	4110 TGGGCTC-CTTCTC ::::::::::: TCCTGGGGTCGCTTCTC 3870 388	-CTTCTC	4110 4120 -TGGGCTC-CTTCTCCTGGTTCT :::::::::::::::::::::::::::::::	41 GTTT : : CATCCTGGTG 3900	4110 4120 4130 4140TGGGCTC-CTTCTCCTTGGTTCTGTTTATTCTATTTCTCA :::::::::::::::::::::::
Hum. WC1		4150 CGTGGTGCCGAGTT(.:::::::: GATGGAGAGCAGAGCG(3920	4160 4170 TCAGAAACAAAACATCT- :::::::::::::::::::::::::::::::::::	4170 AACATCT :: :: CCAGCTAT(GCCC :::: 3AAGATGCTCTT	4180 GCCCCTCAGAGTTT- :::::::: ATGCTCTTGAAGCTGTGTATG 3960 3970 398	4160 4170 TCAGAAACAAAAACATCTGCCCCTCAGAGTTT ::::::::::::::::::::::::::::::
Hum. WC1		4190 CAAC(3990 4000	4200 -CAGAAGGAGGG- :::::::::: ACAGAAGGAAGGT	4210 3GTTCT-CTCG- : : : : : : : : : : : : : : : : : : :	4210 4220GTTCT-CTCGAGGAGAATTTATTCCATGA- : : : : : : : : : : : : : : : : : : :	4220 AGGAGAATTTATTCCATGA :::: :::::: AGATGACTGATGTCCCTGA	4200 4220 -CAGAAGGAGGGGTTCT-CTCGAGGAGAATTTATTCCATGA ::::::::::::::::::::::::::::::::
Hum.	4230 GATGGAG-	GAG	<u>4</u>	4240 ACCTG	DLDD		4250 -aagagagagac
WC1	::::: TATGATGATG 4060	CTGAA 4070	AAGTACCAGTG 4080	.::: 3CCTGGAAC 4090	:::: rccrrcrccrc; 4100	rcaggggaat 4110	GAAGTACCAGTGCCTGGAACTCCTTCTCCTCTCAGGGGAATGAGGAGGAAGTGC 4080 4090 4100 4110 4120

Fig. 26Q-16

4290	4CCCCCAA		WC1 CCCCAGAGAAGGAGGACGGGGTGAGGTCCTCTCAGACAGGCTCTTTCCTGAACTTCTCCAGAGAGGCAGC	4170 4180 4190	4320 4330	ATCGCTGTTGGGAGTT	 WC1 TAATCCTGGGGAAGGAGAAGAGAGCTTCTGGCTGCTCCAGGGGAAGAAGGGGGATGCTGGGTATGATGAT	4240 4250 4260		<i>-</i> T	<i>c</i> h	
4280	CTCAGA-TGACACCC	••••••••••••	STGAGGTCCTCTCAGACAGGCT	4150 4160 41	4310	ATGCTAGCGACAC	 AGAGCTTCTGGCTGCTCCAGGG	4220 4230 42	4350	CCTCTGAAGCCACAAAA	 WC1 GTTGAACTCAGTGCCCTGGGAACATCCCCAGTGACTTTCTCG	4290 4300
4260 4270	Hum. CCACATGGGACAAGAAC		CCCCAGAGAAGGAGGACGGGC	4130 4140 4	4300	CCATGGTTGTGAAGATGCTAGCGACAC-	 TAATCCTGGGGAAGGAGAAG	4200 4210 4	4340	Hum. CTTCCTG	 GTTGAACTCAGTGCCCTGGG7	7 0807 0207
7	Hum.		WC1			Hum.	WC1			Hum.	WC1	

Fig. 26Q-17

92 12 67 112 367 132 427 32 127 52 187 72 247 152 487 172 547 S AGC G GGG A GCA GAT P CCA E GAA V GTT GGA T ACC Д G GAG TGG A GCG R AGG GGT GAT AGT L CTG C TGT 3 Ŋ Д Ŋ 闰 CCC CAG AAG GTC ATG T ACC R CGT AGT GCT Д Ø × \gt ď Ξ S AAA GAC TACG GAA CTG I ATC GTC R CGT CCT Ω 闰 П × Д \gt L CTG ACG GAT CTC GAT AGA I ATC AGC AAG Η Д Д α S × PCCG G GGG r CTG L TTG GAC GAC ာ ၁၅၅ TTC TTC П Д Ĺτι Гщ GAG L L CTG A GCA ACT GCC S AGT AAC GCC H ď Z Ø 闰 A GCC GAC GCC S TCG L Y TAT L CTG F TTC О ø 됴 P CCA ATC L Y TAC F TTT I ATT CCA C TGT ACC വ H Н CTC Q CAG R AGA GAT GCC TGG Q CAG 9 9 9 0 CCC Д ø Z Д A GCC Q CAG CCG TTG CTT V GTC GAA T ACA င် TGC 闰 Д Ц M ATG L CTG R AGG E GAG TACC LCTG LCTC R CGA I ATA GTCGACCCACGCTCCGGTCTGTGGCTGAGC Q CAA P 9 9 9 9 ATG N AAT TAC TAC A GCT Ξ \bowtie \succ TTC M ATG K AAG 9 9 LCTC S TCC N AAC S AGC ſĽι LCTC PCCC Q CAG V GTG K AAG K AAG H CAT D GAT TTC 9 9 9 H YTAC K AAG TACC LCTA Q CAA 14 Q CAG R AGG K AAG GTC CTT TTC CHC LCTT 口 \gt [I GGC G G G G FTTC P CCC E GAA TACT TTT N AAT Ω Ŀ CTG 9 9 9 S AGC AAT GTC GCC TAC I ATT П Ø Z \gt \succ L 9 9 9 8 CTT GGA ი მმმ C TGTLTC S TCT G Ľ

Fig. 27A

352 1087 332 192 607 212 667 232 252 787 272 847 292 907 312 967 LCTC M ATG L CTG S TCC S AGC D GAC A GCC 9 9 9 9 999 G GGG A GCC N AAT L CTG P K AAG T ACA A GCC 9 990 GAT R TACA K AAG Q CAG DGAC CHC V GTT F TTT Ω E GAG V GTG M ATG H CAT C TGC A GCC L Q CAG V GTC E GAG r TTG L CTG K AAG H CAT V GTC V GTC W TGG R CGT V GTC I ATC L R AGA L CTG A GCG Q CAG E GAA F A GCT PCCC W TGG F A GCT F H S TCC I ATT E GAG TACG R CGC FV GTG TACC R CGC T ACC D GAC H CAT S AGT LCTC Y TAC R CGG TACC TTG I ATC F 口 K AAG 9 9 9 F V GTC S TCG \overline{W} V GTC L CTC V GTC H CAC L N AAC T ACA K AAG N AAC V GTC A GCA S TCT A GCT K AAG F DGAC Q CAG H F Y TAC F TTC CCC CCC N AAC T ACC TACC LCTC Q CAG PCCC IATC A GCC D GAC N AAC K AAG S TCG R AGG L CTG L H C TGTF TTT M ATG E GAG L CTG Q CAG LCTC PCCT CCC GTT \gt P TACT V GTC F TTT K AAG GGG A GCG I ATC A GCT S AGC G GGT PCCT A GCC F E PCCG T ACA S TCT Q CAA Q CAG S TCT A GCA D GAC 9 9 9 9 Q CAG P S AGC 9 9 9 V GTG R AGG Y TAT S TCC F TTT 9 9 9 9 TACC S TCT K AAA L G GGA E V GTG C TGC ACC F TTT D GAT

Fig. 27B

392 412 1267 472 1447 492 1507 432 452 1387 532 627 512 .567 ACC 9 96C M ATG L CTG V GTG L CTT S AGC CCC E GAG F S TCT H CAT DGAC N AAC R AGG D GAC L CTG PCCT TACC K AAA S AGC G GGG R W TGG R N AAC 9 960 L CTG V GTG H S AGT VGTT V GTC A GCC PCCC R AGG A GCC L CTG ი წმმ V GTA PCCT G GGT LCTT A GCC Y TAT K AAG L CTG D GAT VGTG E GGA V GTC S TCT S TCA TACT D GAT PCCC L CTT A GCT P C TGT L CTG TACT S TCT TACG GGC K AAG D GAC F D GAC LCTC W TGG S TCC G GGG Q CAG H P CCT GGC V GTG TGC $^{\circ}$ R CGC P CCC VGTG A GCC CTC F V GTA C TGT TGTC V GTG S TCA 9 9 9 9 S TCG L CTG ACC TACA S AGC F TTT Ħ TACT V GTG E GAG G GGG Q CAA Q CAG V GTG EGAG R CGA EAA S TCA E GAG VGTG I ATT A GCA TACA Y TAT S K AAA CD GAT A GCA TACC E GAG G GGT V GTC EGAG N AAC MATG S AGT L CTT TACC E Q CAG S AGT PCCT L ITG L CTG R CGG 9 9 9 9 G GGA V GTG TACC C TGT DGAC CCC E GAG PCCA F T ACA L CTG L CTG N AAC ₩ TGG K AAA Y TAC R CGG H CAT Y TAT H CAT A GCC A GCC A GCC Y TAC E GAG M ATG D GAC L CCC A GCT R CGA C TGT K AAA N AAC K AAG V GTG V GTC S AGT Q CAG CCC H

Fig. 27C

552 1687 592 1807 612 1867 632 1927 652 1987 672 2047 712 572 1747 692 2107 M ATG S TCA P CCC L CTG E GAA A GCC S AGT A GCC A GCT д ССС WTGG R V GTC L TTG PCCT G GGG F TTT F 9 960 A GCT Y TAT CTC GGC D GAT G GGT LCTC LCTC S AGT L CTG Y TAT S N AAT L CTG S AGT V GTC A GCA A GCC V GTC G GGC E GAG A GCC S TCT GTC R AGA TACT \gt E GAA A GCC C TGT N AAT TACT L CTG R AGG V GTC L A GCA K AAA L TTG Y TAC A GCA TACC TACC TACT CCA Д Q CAG IGG I ATT A GCC V GTC WTGG $\frac{L}{TTG}$ V GTC S \geq E GAG I ATC S TCA TACT င TGC D GAC P GCC F Ø PCCA Q CAA L CTG S TCC Q CAG Q CAG H GTG V GTC > AAC P CCG H Y TAC K AAG S TCT S AGC P L CTC \mathbf{z} ი მმმ L R GGC G P A GCC D GAC CTG W TGG I ATC R CGG S AGC ၁ ၁၅ E GAA G GGT V GTG H CAT IATC Y TAC E GAG Q CAG PCCC PCCA G GGG W TGG E GAG S TCC CIC M ATG CTC V GTC Y TAC PCCT V GTT R CGG Q CAG A GCC DGAC R CGG E GAG S TCC PCCC Q CAG A GCA GGA GGA L CTG Q CAG LCTT A GCA D GAT IATC IATC A GCC STCA K AAG S AGC I ATC PCCA Q CAG V GTG G GGC A GCT LCTT W TGG R AGG S 9 0 0 0 V GTG PCCT A GCA L CTG V GTG S TCC SAGC N AAC H I ATA Y TAC L A GCC L LTA

Fig. 27D

73	75	76
R AGA	D GAC	
S AGC	A GCT	
L TTA	D GAC	
ъ ССG	V GTG	
A GCC	D GAT	
k Aag	S AGT	
E GAG	A GCC	
ი მემ	S TCT	
ССT	TACC	
CGC CGC	R AGG	
CTG	C TGC	A * A GCT TAA
T ACC	E GAA	A GCT
E GAG	K AAG	V GTA
C TGT	PCCC	E GAG
ი ე	S TCT	T ACT
Q CAG	Q CAG	9 99 0
V GTT	CFC	L CTA
K AAG	H CAC	C FGC
9 9 0	Q CAA	N AAC
R CGG	E GAG	N AAC

2870 2949 3028 2712 2791 2633 TGACAGCAGCACAAAAGACCACCTTTCTCCCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGG CCAGACCTGCTCCTACACTGATATTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAGGGACCCTCCAGAAA CACAGTGTTTCAAGAGATCCTAAAAAACCTGCCTGTCCCAGGACCCTATGGTAATGAACACCCAAACATCTAAACAATC ATATGCTAACATGCCACTCCTGGAAACTCCACTCTGAAGCTGCCGCTTTGGACACACCAACACTCCCTTCTCCCAGGGTCA TGCAGGGATCTGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACCGCTGACTCCCAGGAAGTCTTTCCTGAAGTCTGAACC ACCTTTCTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCTTCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCT TGATGCACAGCAGTCTGCCTCCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCTACCC

Fig. 27E

10 30 40 50 70 70 A0 50 A0 AD AD AD AD AD AD AD AD AD AD ADDED TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRAIGHT TO A STRA	10 20 40 50 60 70 70 70 50 60 70 70 80 80 100 110 120 140 60 140 60 120 140 60 140 60 140 60 140 60 140 60 140 60 140 60 140 60 60 60 60 60 60 60 60 60 60 60 60 60	DDGNTLYVGARETVLALNIQNPGIPRLKNMIPWPASERKKTECAFKKKSNETQCFNFIRVLVSYNATHLY 110 120 140	160 170 180 190 200 210 ELQDSYLLPISEDKVMEGKGQSPFDPAHKHTAVLVDGMLYSGTMNNFLGSEPILMR	::::::::::::::::::::::::::::::::::::::	220 230 240 250 260 270 280 TLGSQPVLKTDNFLRWLHHDASFVAAIPSTQVVYFFFEETASEFDFFERLHTSRVARVCKNDVGGEKLLQ :::::::::::::::::::::::::::::::::::
50 RVRYYAGDERR ::::::::	50 120 SECAFKKKSNE	.::::::: TECAFKKKSNE 120	190 AHKHTAVLVDG	::::: FTSTQAVLVDG 190	260 ASEFDFFERLH :::::::: ASEFDFFEELY 260
40 PAGGGGGGPMP:	110 II PWPASDRKK	::::::: IIPWPASERKK' 110	180 IEGKGQSPFDPA	::::::::::::::::::::::::::::::::::::::	250 'QVVYFFFEETZ ::::::::: 'QVVYFFFEETZ
30 JLLQLLLPTTT : : : :	30) JOPGVPRLKNM	.:::::::::::::::::::::::::::::::::::::	170 TLLPISEDKVM	::::: :::: ELQDSLLLPILIDKVM 160 170	240 ASFVAAIPST ::::::::
20 WSLLGLFLFQLL(::::::::::::::::::::::::::::::::	20 90 REAILALDIQ	ETVLALNIQ	160 CTFIELQDSY.	CTFIELQDSL	230 DNFLRWLHHD: : ::::: DIFLRWLHAD: 230
			150 TCGTFAFSPACTFI	.:::::::::::::::::::::::::::::::::::::	
Hum. Mur.	Hum.	Mur.	Hum.	Mur.	Hum. Mur.

Fig. 27F

350 FSLLDIERVF ::::::::	420 SGVEYTRLAV ::::::::: SGVEYTRLAV 420	470 480 490 PDPEPVRNLQLAPTQGAVFVGFSGGVW ::.::::::::::::::::::::::::::::::::::	560 PMSRSLRPQS ::.::::::
340 GTRSSAVCAE ::::::: GTRSSAVCAE	410 VVGTPLLVKS :::::::: VVGTPLLVKS	480 LQLAPTQGA\ ::::::::: LQLAPAQGA\ 480	550 NPEWACASGP: ::::::::
300 310 320 330 340 TQPGQLPFNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLL .:::::::::::::::::::::::::::::::::::	370 380 390 400 410 420 TTYRGPETNPRPGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAV ::::::::::::::::::::::::::::::::::::	470 LFPDPEPVRN : :::::: LSPDSEPVRN 470	510 520 530 540 550 560 DCVLARDPHCAWDPESRTCCLLSAPNLNSWKQDMERGNPEWACASGPMSRSLRPQS ::::::::::::::::::::::::::::::::::::
320 ADSPTAPHIY :::::: ADSPSVSRIY 320	390 GPSSDKALTF :::::::: GPSSDKALTF 390	440 450 460 IYLGTTTGSLHKAVVSGDSSAHLVEEIQLF ::::::::::::::::::::::::::::::::::::	530 TCCLLSAPNL : ::: LCSLLSGST- 530
310 NVIRHAVLLP :.:::::: NIIRHAVLLP 310	380 TNPRPGSCSV :::::: VSPRPGSCSM 380	450 SLHKAVVSGD .::::::: PLHKAVVPQD 450	520 PHCAWDPESR ::::::::: PHCAWDPESR 520
300 LCTQPGQLPF::::::: LCAQPGQLPF	370 SRWTTYRGPE ::::::::: SRWTTYRGSE 370	440 LVMYLGTTTG .:::::::: VVMYLGTSTG	510 SCVDCVLARD ::::::::: SCVDCVLARD 510
290 340 350 350 350 350 340 350 350 340 350 XKWTTFLKAQLLCTQPGQLPFNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVF::::::::::::::::::::::::::::::::::::	360 370 380 400 400 420 KGKYKELNKETSRWTTYRGPETNPRPGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAV ::::::::::::::::::::::::::::::::::::	430 440 450 460 470 490 490 ETAQGLDGHSHLVMYLGTTTGSLHKAVVSGDSSAHLVEEIQLFPDPEPVRNLQLAPTQGAVFVGFSGGVW :.:::::::::::::::::::::::::::::::::::	500 RVPRANCSVYESCV :::::::::::: RVPRANCSVYESCV
Hum.	Hum. Mur.	Hum. Mur.	Hum.

Fig. 27G

630)CWATENG : :::::	700 VLSGALI ::::::	
620 7QDGVGGLYÇ ::::::::: ?QDGVGGLYÇ 620	690 TVTVTVLFAI T	760 ACLGTEVA : ::::: WHLGAEVA 760
610 VYNGSLLLI ::::::: VYNGSLLLL 610	680 AAQQSYWPHI ::::::: AAQRSYWPHI 680	750 SASDVDADNI :::::::: SASDVDADNI 750
600 PAAVPEASST:::::::::::::::::::::::::::::::::::	670 JTRVSGGAAL. :::::::. JTRVGGGASM 670	740 ILQSPKECRT :::.:: ILQPSKDHRT 740
580 620 630 630 ILELPCPHLSALASYYWSHGPAAVPEASSTVYNGSLLLIVQDGVGGLYQCWATENG ::::::::::::::::::::::::::::::::::::	650 660 670 680 690 700 TLALDPELAGIPREHVKVPLTRVSGGAALAAQQSYWPHFVTVTVLFALVLSGALI ::::::::::::::::::::::::::::::::::::	720 730 740 750 760 XVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVAS::::::::::::::::::::::::::::::::::::
580 JELPCPHLSA ::::::::: JELRCPHLSA 580	650 FLALDPELAG :::::::: PLALDPELAG 650	720 7QGCETLRPG::::::::::::::::::::::::::::::::::::
570 PQIIKEVLAVPNSII :::::::::::: PQLIKEVLTVPNSII 570	640 650 700 FSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALAAQQSYWPHFVTVTVLFALVLSGALI .::::::::::::::::::::::::::::::::::::	710 720 730 740 750 760 160 160 160 160 160 160 160 160 160 1
570 Hum. RPQIIKEVLAVPNS :::::::::: Mur. PPQLIKEVLTVPNS 560 570	640 650 700 Hum. FSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALAAQQSYWPHFVTVTVLFALVLSGALI .::::::::::::::::::::::::::::::::::::	710 720 740 750 760 Hum. ILVASPLRALRARGKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVA .:.::::::::::::::::::::::::::::::::::

Fig. 27H

10 30 30 Hum. GTCG-AC-CCACGCGTCCGGTCTGTGGCTGAGCATGGC :::::::::::::::::::::::::::::::::::	40 80 100 . CCTCCCAGCCCTGGACCCTCCTGGAGCCTTTTTCCTTTCCAACTGCTTTC-AGCTGCT ::::::::::::::::::::::::::::::::	110 120 130 140 150 160 170 Hum. GCTGCCGACGACGCGGGGGGGCCGGGGCCCATGCCCAGGGTCAGATACTATGCAGGGAT : : .: .: :: :: :: :: :: :: :: :: ::	180 190 200 210 220 230 240 Hum. GAACGTAGGGCCTTCTTCCACCAGAAGGGCCTCCAGGATTTTTGACACTCTGCTCCTGAGTGGTG ::.::::::::::::::::::::::::::::
Hum.	Hum.	Hum.	Hum
Mur.	Mur.	Mur.	Mur

Fig. 27I

250 260 310 ATGGAAATACTCTCTACGTGGGGCTCGAGAAGCCATTCTGGCCTTGGATATCCAGGATCCAGGGTCCC ::::::::::::::::::::::::::::::::	0 340 380 TGATACCGTGGCCAGCCAGTGAAAAAAGAGTGAATGTGCCTTTAAGAAGAGAAG :::::::::::::::::::::::::	0 410 420 430 440 450 GTGTTTCAACTTCATCCGTGTTTCTTACAATGTCACCCATCTCTACACCT :::::::::::::::::::::	0 480 490 500 510 520 TTCAGCCCTGCTTGTACCTTCATTGAACTTCAAGATTCCTACCTGTTGCCCATCTC :::::::::::::::::::::::::::::::
300 GATATCCAGG .:::::::: AATATCCAGA 330	370 GTGAATGTGC ::::::: CCGAATGTGC 400	440 CAATGTCACC ::::: :: CAATGCTACT 470	510 GATTCCTACC ::::::: GATTCCCTCC 540
290 TCTGGCCTTG :::::::: CCTGGCCTTG 320	360 AGAAAAAAGA ::::::::: AGAAAAAAGA 390	430 TGGTTTCTTA ::::::: TGGTCTCTTA 460	500 TGAACTTCAA :::::::: TGAACTCCAA 530
280 GAGAAGCCAT :::::::: GAGAGACCGT 310	350 AGCCAGTGAC ::::::: AGCCAGTGAG 380	420 ATCCGTGTCC :: ::::: ATTCGAGTCC 450	490 GTACCTTCAT :::::::: GTACCTTCAT 520
270 3TGGGGGCTC::::::::: 3TGGGGGCTC	340 TACCGTGGCC :::::::: TACCCTGGCC 370	410 PTTCAACTTC :::::::: PTTCAACTTC 440	480 AGCCCTGCTT ::::::::
260 :actctctacc :actctctatc		400 GACACAGTG:::::::::::::::::::::::::::::::	470 TTCGCCTTC2 :::::::::::::::::::::::::::::::::
· · · · · · · · · · · · · · · · · · ·	320 CAGGCTAA :::::: AAGGCTAA	390 40 Hum. AGCAATGAGACACA :::::::::::::::::::::::::::::::	460 47 1. GCGGCACCTTCGCC 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Hum. Mur. 28	Hum. Mur.	Hum Mur	Hum. Mur. 49

Fig. 27J

530 560 570 580 590 GGAGGACAAGGCCAAAGCCCCTTTGACCCCGCTCACAAGCATACG-GCTGTCTT : : . : . : : : : : : : : : : : :	600 610 620 630 640 650 660 GGTGGATGGGATGCTCTATTGAACAACTTCCTGGGCAGTGAGCCCATCCTGATGCGCACA ::::::::::::::::::::::::::::::::	670 680 730 CTGGGATCCCAGCCTGTCCTCCAAGACCGACAACTTCCTCCGCTGGCTG	740 750 800 Hum. CAGCCATCCCTTCGACGTCGTCTACTTCTTCGAGGAGACAGCCAGC
570 TTTGACCCCGCT :::::::: TTGACCCTGTT	640 TTCCTGGGCAG1 :::::::::: TTCCTGGGCAGC	80 710 700 710 710 710 710 720 TGTCCTCCGCTGGCTGCA'::::::::::::::::::::::::::::::::::::	780 :GAGGAGACAGC ::::::::::::::::::::::::::
560 CCAAAGCCCCT ::::::::: CCAAAGCCC-T 590	630 TATGAACAACT ::::::::: CATGAACAACT	700 GACAACTTCCT :::::::: GACATCTTCTT 730	770 ACTTCTTCTTC : :::::: ATTTCTTCTTT
550 3AGGGAAAAGG 1: ::::::: 3ACGGGAAGGG	620 ATTCTGGTAC :::::::::	690 CCTCAAGACC :::::::: TCTCAAGACT	760 ::::::::::::::::::::::::::::::::::::
530 540 550 560 SGAGGACAAGGTCATGGAGGGAAAAGGCCAAAGCCCC : : : : : : : : : : : : : : : : :	600 GGTGGATGGGATGCTCT ::::::::::::::::::::::::::::::::::	680 rcccagccrg1 :::::::::::: rcccarccrg1	740 750 CAGCCATCCCTTCGACC:::::::::::::::::::::::
530 Hum. GGAGGA :: Mur. GATAGA 560	600 Hum. GGTGGA' ::: :: Mur. GGTCGA'	670 Hum. CTGGGATCCCAG ::::::::: Mur. CTGGGATCCCAT 700	740 Hum. CAGCCA' :::::: Mur. CAGCCA'

Fig. 27K

20 840 870 CGCGGGTGGCTAGAGTCTGCAAGAATGACGTGGGCGGCGAAAAGCTGCTGCAGAAG : : : : : : : : : : : : : : : : : : :	880 890 900 910 920 930 940 AAGTGGACCACCTTCCTGAGGCCTGCTCTGCACCCGGGGCAGCTGCCCTTCAACGTCATCC ::::::::::::::::::::::::::::::::	950 960 1010 GCCACGCGGTCCTGCTCCCCACAGCTCCCCACATCTACGCAGTCTTCACCTCCCAGTG ::::::::::::::::::::::::::::::::::	1020 1030 1040 1050 1060 1070 1080 GCAGGTTGCGGGTTGTGCCTTCTCTCTTTGGACATTGAACGTGTCTTTAAG :::::::::::::::::::::::::::::::::
850 !AATGACGTGGGCGC ::::::::::::::::::::::::::::::	920 .cccagccgggcac : ::::::::::::::::::::::::::::::::::	990 TCCCCACATCTACGC; : :::::::::::::::::::::::::::::::::::	1060 TTCTCTCTTGGAC:::::::::::::::::::::::::::
840 GAGTCTGCAAG ::::::::::::::::::::::::::::::::::	910 GCTGCTCTGCA : :::::::	980 TCTCCCACAGC:::::::::::::::::::::::::::::	1050 cggttfgggcc :.::::::::::::::::::::::::::::::::
830 GCGGGTGGCTA ::::::: CAGGTGGCTC. 860	90 CCTGAAGGCCCA :::::::::: CCTCAAAGCCCA(0 TCCCCGCCGAT : :::::::: TGCCCGCCGAT	1040 CAGGAGCTCTG(:::::::::: CAGGAGCTCAG(
810 820 Hum. GAGGCTCCACACATCG:: : ::: Mur. AGAGCTGTATATATCC 840 850	880 89 Hum. AAGTGGACCACCTTC :::::::::::::::::::::::::::::::::	950 960 Hum. GCCACGCGGTCCTGCT :::::::::::::: Mur. GCCACGCGGTCCTGCT	1020 1030 GCAGGTTGGCGGGACC ::::::::::::: GCAGGTTGGCGGGACC 50 1060
8. Hum. GAGG(: Mur. AGAG(840	88 Hum. AAGTC ::::: Mur. AAGTC	95 Hum. GCCAC ::::: Mur. GCCAC	1020 Hum. GCAGGT: :::::: Mur. GCAGGT: 1050

Fig. 27L

1090 1100 1110 1120 1130 1140 1150 GGGAAATACAAAGAACTTCACGCTGGACTACTTATAGGGCCCCTGAGACCACCCCC :::::::::::::::::::::::::::	1160 1170 1180 1190 1200 1210 1220 GGCCAGGCAGTTGCTCAGTGGGCCCTCTGATAAGGCCCTTCATGAAGGACCATTTCCTGAT :::::::::::::::::::::::::::::::::::	1230 1240 1250 1260 1270 1280 1290 Hum. GGATGAGCAAGTGGACGCCCCTGCTGGTGAATCTGGCGTGAGTATACACGGCTTGCAGTGAG ::::::::::::::::::::::::::::::::	1300 1310 1320 1330 1340 1350 1360 Hum. ACAGCCCAGGGCCTTGATGGGCACCATCTTGTCATGTACCTGGGAACCACCACAGGGTCGCTCCACA .:::::::::::::::::::::::::::::::::
1090 11 Hum. GGGAAATACAAAGA ::::::::::: Mur. GGGAAGTACAAGGA 1120 1130	1160 Hum. GGCCAGGCAG7 :::::::: Mur. GGCCAGGCAG7 1190	1230 Hum. GGATGAGCAAC :::::::: Mur. GGATGAGCACC 1260	1300 133 Hum. ACAGCCCAGGGCCT: .:::::::::::::::::::::::::::::::::::

Fig. 27M

1370 1380 1390 1400 1410 1420 1430 AGGCTGTAAGTAGCTGTTCCCTGACCCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCTGAACCATGAAAAAAAA	AGGCTGTGGTGCCTCAGGACAGCAGTGCTTATCTCGTGGAGGAGATTCAGCTGAGCCCTGACTCTGAGCC 00 1410 1420 1430 1440 1450 1460	1440 1450 1500 TGTTCGCAACCTGCAGCTCCCCAGGGTGCTGTTTGTAGGCTTCTCAGGAGGTGTCTGGAGG ::::::::::::::::::::::::::::::::::::	1510 1520 1530 1540 1550 1560 1570 GTGCCCCGAGCCAACTGTGTGTGTGTGTGTCCTTGCCCGGGACCCCCACTGTG ::::::::::::::::::::::::::::::::::	1580 1590 1600 1610 1620 1630 1640 CCTGGGACCCTGAGTCCCGAACCTGTTGCCTCCTGCCCCCAACCTGAACTCCTGGAAGCAGGACAT :::::::::::::::::::::::::::::::::::
1420 CAGCTGTTCCC	JAGCTGAGCCC 1450	1490 scrrcrcagga ::::::::::	1560 CCTTGCCCGGG ::::::::: GCTTGCCAGGG	1630 CTGAACTCCTG :: :: CAAGCCTTG
1410 3GAAGAGATTC	3GAGGAGATTC 1440	1480 3TGTTTGTAGC ::::::::::::::::::::::::::::::::::::	1550 FGGACTGTGTC :::::::: FGGACTGTGTC 1580	1610 1620 1630 CCCGAACCTGTTGCCTCTGTCTGCCCCCAACCTGAACTC : :: ::::::::::::::::::::::::::::::::
1400 CTCATCTGGT(:::::::::::::::::::::::::::::::::	CTTATCTCGT(1430	1470 ccagggrgca(:::::::: ccaggrgca(1500	1540 3AGAGCTGTG' :::::::: 3AGAGCTGTG' 1570	1610 3CCTCCTGTC; ::::::::: 3CCTTCTGTC; 1640
1390 3ACAGCAGTG	GACAGCAGTG 1420	1460 TGGCCCCCAC(:::::::::::: TGGCCCCCGC(1490	1530 TAGTGTCTAT(::::::: CAGTGTCTAC(1560	1600 CGAACCTGTT(:: :: : AGACTCTGCA(1630
1380 GGTAAGTGGG	GGTGCCTCAG 1410	1450 AACCTGCAGC' ::::::::: AACCTGCAGC' 1480	1510 1520 GTGCCCGAGCCAACTG' :: ::::::::::::::::::::::::::::::::::	1580 1590 CCTGGGACCCTGAGTCC :::::::::::: CCTGGGACCCTGAATCA 10 1620
1370 Hum. AGGCTGTGGTAA	Mur. AGGCTGT 1400	1440 Hum. TGTTCGC ::::: Mur. TGTTCGA 1470	1510 Hum. GTGCCCC :: ::: Mur. GTTCCCA 1540	1580 Hum. CCTGGGA :::::: Mur. CCTGGGA

Fig. 27N

1650 1660 1670 1680 1690 1700 1710 GGAGCGGGGGAACCCAGAGCATGTGCCAGTGGCCCCATGAGCAGGCCTTCGGCCTCAGAGCCGC ::::::::::::::::::::::::::::::	1720 1730 1740 1750 1760 1770 1780 CCGCAAATCATTAAAGAAGTCCTGGCTGCCCCCACTGTCAG::::::::::	1790 1800 1810 1820 1830 1840 1850 CCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTCCCAGAAGCCTCTTCCACTGTCTACAATGG : ::::::::::::::::::::::::::::::::::	1860 1870 1880 1890 1900 1910 1920 CTCCCTCTTGCTGATGGATGGAGTTGGGGGTCTCTACCAGTGCTGGGCAACTGAGAATGGCTTT ::::::::::::::::::::::::::::::::
1700 3CAGGAGCCTTC 1::::::::::::::::::::::::::::::::::::	50 1770 GGAGCTCCCCTG(::::::::::::::::::::::::::::::::::::	1840 3AAGCCTCTTCC2 3AAGCCTCTGCT2 1870	1910 AGTGCTGGGCAA(:::: AGTGTGTGGCGA()
1690 1600 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000	1760 CTCCATCCTGG; :::::::::: CTCCATCCTGG;	1830 GCAGTCCCAGA . :.: :::: AAAATCTCAGA	70 1880 1890 1900 TAGTGCAGGATGGAGTTGGGGGTCTCTACCAGTG :.::::::::::::::::::::::::::::::::::
0 .TGTGCCAGTGG :: :::: .TGCACCCGTGG	0 1750 CTGTCCCCAAC' :.::::::: CAGTCCCCAAC'	0 1820 TGGCCCAGCAGG ::::::::::::::::::::::::::::	0 1890 GGAGTTGGGGG ::.:: :::: GGTGTCGGGGG
0 AGAGTGGGCAT(.:::::::: GGAGTGGGTAT(0 GAAGTCCTGGC :::::::: GAAGTCCTGAC	0 ATTGGAGTCAT : ::::::: ACTGGAGTCAT 1840	0 1880 AGTGCAGGATG . :::::: GCCGCAGGATG
1650 1660 3GAGCGGGGAACCCA ::::::::::::::::::::::::::::::::	1720 1730 CCGCAAATCATTAAAG. :: ::: ::::: CCTCAACTAATTAAAG. 1750 1760	1900 TGGCCTCTTATTA':::::::::::::::::::::::::::::	1860 1870 CTCCCTCTTGCTGATA(:::::::::::::: CTCCCTCTTGCTGCTGCTG(1890 1900
1650 Hum. GGAGCG ::::: Mur. GGAACG	1720 Hum. CCGCAA :: ::: Mur. CCTCAA	1790 Hum. CCTTGG : ::: Mur. CACTGG	1860 Hum. CTCCCT :::::: Mur. CTCCCT

Fig. 270

Hum.	1930 TCATACCCTG	1930 1940 1950 1960 1970 1980 1990 TCATACCCTGTGATCTCCTACTGGGTGGACAGCCAGGACCCAGACCCTGGCTGG	1950 TGGGTGGACA	1960 3CCAGGACCA	1970 GACCCTGGCC	1980 CTGGATCCTG2	1990 AACTGGCAG
Mur.		::::::::::::::::::::::::::::::::::::::	:::::::: TGGGTAGACA(1980	::::::: GCCAGGACCA 1990	: :::::: .GCCCCTGGCG 2000	::::::::::::::::::::::::::::::::::::::	:.:::::: AGCTGGCGG 2020
Hum. Mur.	2000 2003 GCATCCCCGGGAGG ::.:::::::: GCGTTCCCCGTGAGG	2000 2010 2020 2030 2040 2050 2060 GCATCCCCGGGAGCATGTGAAGGTCCGTTGACCAGGGTCAGTGGTGGGGCCCCCTGGCTGCCCAGCA ::.::::::::::::::::::::::::::::::::::	10 2020 2030 2040 2050 2060 CATGTGAAGGTCCCGTTGACCAGGGTCAGTGGGGCCGCCCTGGCTGCCCAGG :.:::::::::::::::::::::::::::::::::	2030 GACCAGGGTC ::::::::: GACCAGGGTC 2060	2040 :AGTGGTGGGG .:.::::::	2050 CCGCCCTGGC1 : ::::: CTTCCATGGC7 2080	2060 :TGCCCAGCA ::::::: TGCCCAGCG 2090
Hum. Mur.	2070 208 GTCCTACTGGCCCC3 ::::::::::: GTCCTACTGGCCCC3	880 . F. C.	2110 2100 2110 2 TTTGTCACTGTCCTCTTTTGCCTTAGTGCTTT ::::::::::::::::::::::::::::::::	2100 GTCCTCTTTG :::::::: GTCCTCCTGG 2130	2110 CCTTAGTGCT::::: :::::::::::::::::::::::::::::	2120 TTCAGGAGCCC :::: ; CCTGGGAGTGC	2130 :crcarcarc :::: :: :crcacrcrc
Hum. Mur.	2140 215 CTCGTGGCCTCCCC2 ::: ::::: CTCCTCGCTTCCCC2 2170 2180		2160 2170 2180 2190 2200 TTGAGAGCACTCCGGGCCAAGGTTCAGGGCTGTGAGACCCTGCGCCC :::::::::::::::::::::::::::::	2170 CTCGGGGCAA :::::::: CTCGGGGTAA	2180 GGTTCAGGGC ::::::::: GGTTCAGGGC 2210	2190 TGTGAGACCC1 ::::::::::::::::::::::::::::::::::	2200 TGCGCCCTG ::: ::: . TGCCCCCCA

Fig. 27P

2210 2220 2230 2240 2250 2260 2270 GGGAGAAGGCCCCGTTAAGCAGAGCAACACCTTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGA ::::::::::::::::::::::::::::::::::	2280 2390 2310 2320 2330 2340 TGTGGACGCTGACAACTGCCTAGGCACTGAGGTAGCTTAAACTCTAGGCACAGG-CCGGGGCTGC :::::::::::::::::::::::::::::::::::	2350 2360 2410 GGTGCAGGCACCTGGCCTGGCTGGCCCCAAGCACAGCCCTGACTAGGATGACAGCACAAA .:.::::::::::::::::::::::::::::::	2420 2430 2440 2450 2460 2470 2480 AGACCACCTTTCTCCCTGAGAGGAGCTTCTGCTACTCTGCATCACTCAGCAGGGTGATGC ::::: :::::::::::::::::::::::::::::::
0 2230 2240 2 TAAGCAGAGCAACACCTCCAGTCTCC : .::::::::::::::::::::::::::::::::::	2300 2310 2 CCTAGGCACTGAGGTAGCTTAA ::::::::::::::::::::::::::::::::::	2370 2380 GGCTGGGCGCCCAAGCACAGC ::::::::::::::::::::::	2430 2440 2450 2460 2470 CCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGG
2210 2220 GGGAGAAGGCCCCGTTAAGCAGA ::::::::::::::::::::::::::::::::	2280 2390 2300 2310 2320 TGTGGACGCTGACAACTGCCTAGGCACTGAGGTAGCTTAAACTCT. ::::::::::::::::::::::::::::::::::	2350 2360 2370 GGTGCAGGCACCTGGCCATGCTGGCTGGGCG .:.:::::::::::::::::::::::::::::::	2420 2430 2 AGACCACCTTTCTCCCCTGAGAGGAG ::::: ::::
Hum. Mur.	Hum. Mur.	Hum. Mur.	Hum. Mur.

Fig. 27Q

10 2550 AGGGTGGGGGCT	.::::	2610 CTGGCCATTCCAG	rgattgacccaa 2580	2640 2650 2660 2670 2680 CACA-GTGTTTCAAGAGATCCTAAAAAACCTGCCTGTCCCAGGACCCTATGGTA ::::::::::::::::::::::::::::::::	2710 2720 2730 2740 2750 craaacaarcaarcaarcaarcaarcaarcaarcaaacaaacaaacaaacaaacaaacaaaacaaacaaaacaaacaaacaaacaaacaaacaaacaaacaaaa
2540 TCTAACAG		26 CAGTTCT	TTGATTT 2570	10 FTCCCAGG :: .:: FTCT-GGG 2640	2740 GGAAACT::::: GAACGCT(
2530 CACATGAGCTC	:::: CACATT 2510	2600 AGAGGATCCTT	.c-AGGTTTCTT 2560	2670 AAACCTGCCTGT 	2730 2740CACTCCTGGAAACT- ::::::::::::::::::::::::::::::::::::
2520 TTCTACCAAGO	::::::::::::::::::::::::::::::::::::::	2570 2580 2590 2600 2610 ccracacrgargaagaaccrggaggarccrrcagrrcrggc	GAAGAGCCAGAC 2550	50 2660 3ATCCTAAAAAA :: ::::: 3A-CCATGAAAG	2710 2720 CTAAACAATCATATGCTAA-CATGC:::::::::::::::::::::::::::::::::::
2510 GGACTCCC	::::::: TGGGACTCTC' 2490	2580 GATA-TTG2	 GTGACAGG2 0	2650 TTTCAAGAGA : ::.::: CTCCAGGAGA	2720 TCATATGCTAA :.::::: GCTGGGGCTA1 2680
2500 CCCCTATG	:::::: CCCCTGTG	2570 CCTACACT		2640 .CACA-GTGTT ::::::: .CAAACGTGCT	2710 CTAAACAA' : .:.:: CCGAGCAA(
2490 2540 2510 2520 2530 2540 2550 ACAGCAGTCTG-CCTCCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTTAACAGGGTGGGGGGCT	:: :::: ::::::::::::::::::::::::::::::	2560 2570 2580 2590 2600 2610 ACCCCCAGACCTGCTCCTACACTGATA-TTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAG	GTCTCCATACCTGTACTTGTGACAGGAAGAGCCAGAC-AGGTTTCTTTGATTTTGACTTGAC	2620 2630 2640 2650 2660 2670 2680 Hum. GGACCCT-CCAGAAACACA-GTGTTTCAAGAGATCCTAAAAAAACCTGCCTGTCCCAGGACCCTATGGTA :::::::::::::::::::::::::::::::::::	2700 AACACCAAACAT ::::::::: AAC-CTAAGCAT 2660
Hum. AC	:: Mur. AC	Hum. AC	Mur. GT 25	2620 Hum. GG :. Mur. GA	2690 Hum. ATG; : . Mur. ACA;

Fig. 27R

Fig. 27S

Hum. Mur.		TGTCAGAGA ::::::::: TGTCACAGA	.GACTGTTTAT ::::::: .GACAATTTAT 3010	AAACTGCTTGTCAGAGACTGTTTATTTTTTAAAATA':::::::::::::::::::::	ri'Ai'AAGGC'i"	TAAAAAAAA	AAACTGCTTGTCAGAGACTGTTTTTTTTTTTTAAAAATATATAAGGCTTAAAAAAAA
Hum.	3090 3100 Hum. AAAAAAAAGGGCGGCCGC	3100	Ų U				
Mur.	Mur. GCTTTAAAG	: 	1				
	3040						

Fig. 27T

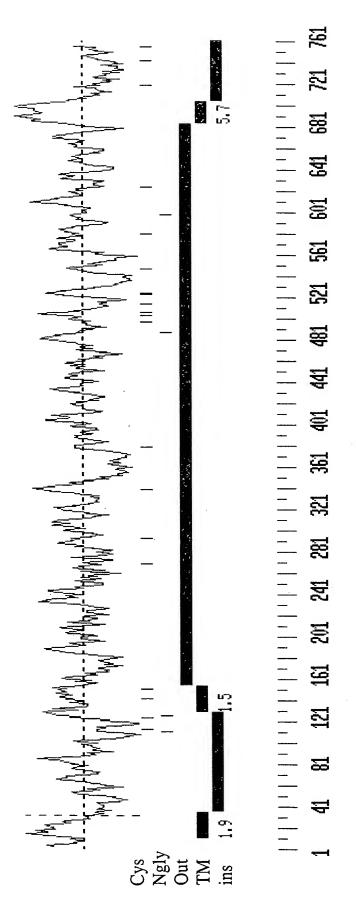


Fig. 27U

150 9 I ATC ACA H K AAG ACA Ħ TGT \mathcal{O} ATG \mathbf{z} TCAAGAAAGGCCCAGCACAGCAGAAGATCAGCTGGATCTAGCTCCTGCAGGAG 26 210 ATT Н ACC Еч CAG α TCT S TCC S S TCA GIC \gt TAT × CTC П AAT Z TGG 3 L CTG LCTC TTC ഥ C TGT GGA TGG 3 r CTC GTC \gt CCA Д

46 270 GGA O æ CAA Ø GTT \gt GGT G TAT \succ GAC Ω L CTT A GCA R AGG Q CAG TACT ATT Н AGG ထ GCA ø AAG ¥ I ATC GGA ტ P CCT TAC \bowtie

99 330 E GAG TCT ß GGT ᠐ AGC ß TTA ы GAT Д CCA Д CHC AAA × K AAG E GAA K AAA CTA Ц ATG Ξ CAA Ø GAG 闰 I ATT ATG Ξ AAG × MATG 86 390 S AGT I ATC AAA × ATA Н AAT Z TCA Ŋ TTTſτι AAT z TAC \triangleright AAC Z GTA \gt TAT \triangleright D GAT GTT \gt K AAA CTA Ы TTTщ GAA 臼 L S TCT

106 450 L CTA GCG ď AAA × ATC Н GGA Ç GTG > GGA G CCT Д GTG \gt TTTſτι GCT Þ TTG Ы TCA Ŋ T ACC AAT Z CCA Д TTT ഥ TCA S TTT ſτι GCC Ø

126 510 GTT \gt F TTT LCTT CCA Д S TCT GAG 闰 TTC ſτι 9999 Ċ TGG Z GAC О ACA Н AGC ß I ATC AAC Z GCC ø ACT E GGC G CAT 田 AAC Z ACC H

146 570 ATG \mathbf{z} GAA 臼 AAT Z TTA Ы AAC Z AAG × TTA ᆸ ATT Н CCC Д AAA × GAG 闰 ATG $\mathbf{\Xi}$ CCC Д GAG 回 GCT ď TTT ſτι TCC ß N AAC TAT ⋈ CTG П

Fig. 28A

326 1110 306 1050 266 930 286 990 166 630 186 690 206 750 226 810 246 870 E GAG E GAA ი მმმ CIC L CFC Q CAA M ATG L CTG I ATC N AAC M ATG A GCT L CTG S TCT FTTC TACC T ACC PCCA E GAA S TCC TACA N AAC GAA TACA S TCT PCCC F TTC 闰 S AGC L CTG N AAC F Q CAA Q CAG N AAT S AGT GTT \gt r CFC P CCA T ACA I ATC S AGC H CAT VGTT S TCC 9 960 N AAC LCTA Y TAC L TTG R CGC A GCT P CCA S \mathbf{F} A GCC E GAA H CAT I ATC S F TTTCAA N AAC Õ ſΞŧ AAT Y TAC V GTA PCCA S N AAC Y TAC LCTA K AAG Z L CTA LCTC A GCG I ATC CCC D GAT G GGT S TCC AAT \bowtie Д A GCG K AAG E GAG L CTG V GTG I ATC CAA S TCT I ATT Ø E GAG K AAA LCTG L TTG F TTT K AAA A GCA I ATA ACC Н V GTC N AAC TACT PCCT F TTT E GAA CCC CTC I ATT Y TAC L M ATG GAA FTTC ACC R CGG GTT PCCT 闰 \triangleright Н S AGT N AAC D GAC PCCA Y TAT S S TCC E GAG M ATG GCA GAC LCTT S TCA GAG LCTC LCTC ACA I ATC ø Ω 闰 H I ATT I ATT Y TAC FTTC A GCC TACT GTG A GCC S > I ATT K AAG N AAC PCCC I ATC LCTC N AAC ATG GCC Ø Ξ ^Б ССС TACC E GAG PCCC G GGA N AAT 9 9 9 9 IATC PCCT C TGT L TTA TACT D GAC I ATT F TTC L CTT R AGG I ATC r CFC ACC. Y TAC GAC V GTT I ATT 9 9 9 6 7 V GTG V GTT

Fig. 28B

1350 1410 1500 346 366 1230 386 1290 406 426 446 470 456 r CTG AAC PCCA TTC TAT AGC ⋈ Z ſΞι Ŋ AAG AGA S AGC CTC TTA ATA 凶 × Ы Н CTG CAA CAA ж ОдС GTC TTC CTG > ᆸ ſτι Ы N AAT GAC G GGA GGA AAA AAC × Д Z L TTG S TCC H ACC CTG F Е Ы I ATT E GAG H CAC S TCC PCCA GGT Ŋ V GTT PCCA CIT AAT I ATT GAA 闰 Z CIG r Trg I ATT CCC r Trg TGG 3 9 99 90 A GCT နှ ၂၁၁၂ L CTG CTT GTA \gt GTT S TCG CIT CCT F CAC > 田 SAGT R CGC LCTA F TTT G GGT F TTC TGA * T ACC F TTC I ATT G GGA E GAG CCT S AGT Д S AGT R AGA N AAT Q CAA L PCCA ggg ď A GCT Q CAG N AAC GAA Q CAG TCA V GTT 闰 വ GTT L Q CAG AAG F TTT L TTG E GAA \gt × F S TCT R AGG K AAA I ATT K AAG GGG G DGAC L TTG L TTG A GCA D GAT AGG S TCA 凶 ATG S ICC V GTC N AAT S TCA S TCC TGG Σ ⋈ N AAT ICC E GAG င် ကိုင် CAG A GCC T ACA ഗ Ø V GTT V GTC I ATT r CTG V GTC AGA GAA 闰 召

1579 1658 1737 **ACACACTGGAATTGTAAAGCCCTTGTGAATTGCTTAGGCAGAAAGTTTTCTTTAAGCCTTCAGGAACCCAGAATAA** TTTGTTTTGTTTTGGGGCAAGAAAAATTCTAGGACAAGAGCTAGGCATGTACTTCTGACCAGGTGGGTAAGCAACTCTAAG TTGCCGGTTTTGCAATTCACCCCAGGAAGTAAATGGTCCTTAATCCTACAACTACTGTAAAACCCAGAAGGGAAAGACAGT

Fig. 28D

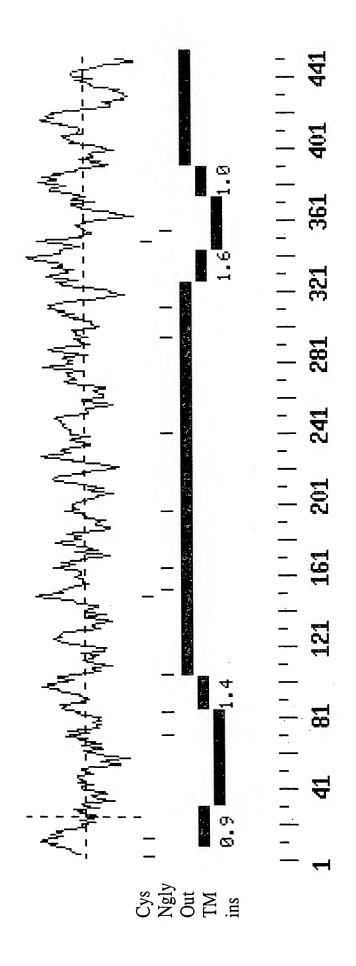


Fig. 28E

Fig. 28F

230 240 250 260 270 280 290 286 SMLYIGIAEYFFKSASFAHFTAGVENLILSTEEISNHFVQNSQGLGNVLSRIAEIYILSQPFMVRIMA :::::::::::::::::::::::::::::::::::	BPI Ida
--------------------------------------------------------------------------------------------------------------------------------------------	---------

Fig. 28G

60 LPDLSGSESL :::: .: LPDFTGDL 60	.0 SFAEPME : NFDLSIEGM 130	140 150 KPILKN-LNEMLCPIIASE ::. :: :: :: :: :: :: .: .: .: .: .: .:	.70 180 200 210 220 .TKIDNYTLLDYSLISSPEITENYLDLNLKGVFYPLENLTDPPFSPVPFVLPERSN ::::::.:::::::::::::::::::::::::
60 ILKEKKLP : :: ILLRITLP 60	130 PLFVLYNSFAH :.	J LKN-LNEM : . : .: LRNKMNSQ	210 DPPFSPVP :::.: PPPFAPPV
50 SMKMIEQN : SLLALQSE 50	120 IDWGFESI : . 3KWKAQKF	140 LJ : : : : : : : : : : : : : : : : : : :	Z YPLENLTI : YSENHHNI 260
20 30 40 50 60 WNLYVSSSQTIYPGIKARITQRALDYGVQAGMKMIEQMLKEKKLPDLSGS : .:: :::::::::::::::::::::::::::::	110 NHGTANIS: : SNANIKIS(GWLIQLF1	200 210 YLDLNLKGVFYPLENLTDPPF9 ::: :::: TLDVQMKGEFYSENHHNPPPF7 250 260
KARITQRA :::: VARITDKG	0 GVGIKALTN .:::: NVGLKFSIS	 HVHISKSKV 170	190 PEITENYLD ::.::
30 IYPGII . ::. LGANPGLY	100 SLAFVPGVGIK ::::: QISMVPNVGLK 100	SHINSVH	180 DYSLISSPI .:: NYGLVAPPA
20 XVSSSQT .:	90 AFSFPNT .: .: EFQLPSS	TTCSSCS	190 180 190 TKIDNYTLLDYSLISSPEITEN::::::
GCFLLWNI .::: PSILLALI 10	80 YNFSNIKISAF :.:: .: YEFHSLNIHEF	KPI- ::. NPTSGKPTI' 150	170 FLEVLTKI :: :.:: FLPVMTKI 220
10 50 60 286 MCTKTIPVLWGCFLLWNLYVSSSQTIYPGIKARITQRALDYGVQAGMKMIEQMLKEKKLPDLSGSESL :	70 80 100 110 120 130 EFLKVDYVNYNFSNIKISAFSFPNTSLAFVPGVGIKALTNHGTANISTDWGFESPLFVLYNSFAEPME : : : : : : : : : : : : : : : : : : :	286 RENP SISADLKLGSNPTSG 140 150	160 170 180 200 200 210 220 VKA-LNANLSTLEVLTKIDNYTLLDYSLISSPEITENYLDLNLKGVFYPLENLTDPPFSPVPFVLPERSN : .::::::::::.::::.:::::
286 M : RENP M	7 286 E RENP R	286 - RENP S	286 V : RENP V

Fig. 28H

286 RENP	230 240 250 260 290 290 290 290 290 290 290 290 290 200 20	O MA : SA : O
286 RENP	TEPPII . :: . STPPHL 350	PE KH KH
286 RENP	370 380 400 410 420 430 430 430 430 440 420 430 8NRSNIEVLRFENILSSILHFGVLPLANAKLQQGFPLPNPHKFLFVNSDIEVLEGFLLISTDLKYETS::::::::::::::::::::::::::::::::::::	M I
286 GWE	440 450 36 QQPSFHVWEGLNLISRQWRGKSAP	
KENF		

Fig. 281

 ∞

149 Q CAG R AGA TCA Ω TIG Ч ACC Н GAA 闰 TTG Ц ATG $\mathbf{\Xi}$ ATTAGTTGTTACATTGGCAGGAAAAAATAAATGCAGATGTTGGACC 28 209 Q CAG TTC 压 ATG Ξ TAT GCG ø GTG \gt CTG Ц ATT Н CIG Ы CTT П TGG 3 ATG \mathbf{z} GAA 闰 ATG Ξ AGA α H S TCA GTC \gt I ATT TGG 3

48 269 AAT Z ATG Ξ TTC [I GCA ø GAA 闰 CCA Д GAC Ω GTG \gt GCT ď AAA × ACT Н CCA Д ATG ⋈ CAT 耳 GTA \gt S TCA AAT Z GTG \gt AAT Z AGA 吆

68 329 GAA 闰 ACT Н GCA Þ GTC \gt GAA 囯 TAT \succ GAA 田 E GAG TGT \mathcal{O} CCC Д \mathtt{TAT} \succ GGC G CAA Ø CAT 田 Q CAA I ATC ATC Н GAA 闰 AGT S ATT Н

88 389 ACA \vdash AAG × AAG \bowtie CCT Д CAA Ø GTG > CTA Ы GGC Ç CGA α PCCT ATT Н AGG മ്പ AAC Z GTT \gt TCT Ŋ CIT I ATC TAT \succ GGG G GAT Ω

108 449 I ATT TGG \geq AAC Z AGC S GCT Ø GGT G GGA G GTT \gt CTA ᆸ GGC ტ CAT 耳 CAG Ø CTG ы TTA П GTG \gt GTG > CCT щ AGG മ TCC Ŋ GGT G

128 509 \overline{W} GTG \gt GAC Д F GGT \mathcal{O} A GCT GAT Д GCA Ø CTG Ц ATT Н TTC ц GGC Ç CTG Ы AGC Ŋ AAT Z AAC Z CCC Д CTG Ы AAC \mathbf{z} TCC ഗ

148 569 CAA Ø GAC О ATA Н TCC S CTC 니 ACA 딛 AAG × CAC 二 AAA K CGA 跘 TCT Ŋ TGG 3 GCC ø AAC Z GGA O AGG 吆 AGC ഗ AAC Z 9999 G ATG \mathbf{z}

29A Fig.

168 629 188 689 208 749 228 809 248 869 268 929 288 989 308 1049 Q CAG I ATA M ATG FTTT I ATT W TGG 9 9 9 R CGA N AAT K AAA K AAA Y TAT Q CAG H CAC Q CAG K AAA S AGC A GCA S TCA I ATC TACC L D GAT M ATG L CTA TACC E GAG K AAA ი მმმ L CTT N AAC P CCT Y TAT FTTTI ATT а 960 Q CAG PCCC E GAA I ATT M ATG L CTT N AAT S AGT Q CAA D GAC V GTC S AGC K AAA VGTG G GG A GCT N AAT TTT Y TAT L CTG K AAA K AAA Q CAG N AAC V GTG W TGG ſτι E GAG R AGG Y TAT A GCA GGC GGC TACC D GAC S TCT GCT I ATC PCCA H CAT N AAC ACA TTTC TGT Ø 压 H ſτι ATG AAG M ATG K AAG L TTG L CTT F G GGA GCA \mathbf{z} × Ø CGG GAG EAA TACC Y TAC V GTT G GGA G GGA A GCT 闰 異 Q CAG GAT S TCC TACT K AAG I ATT G GGT CIT LCTC Ω TAT SCC I ATC V GTT L E GAA ာ ၁၅ F TTT TACT ø × S AGT T ACG A GCA I ATA ATG L CTT LCTT H CAC G GGT $\mathbf{\Xi}$ F M ATG K AAA PCCC o Caa A GCC I ATT L TTA S TCT Q CAG M ATG N AAT A GCT D GAT A GCT F TTT A GCA R AGA W TGG GTG L ITG G G G PCCA LCTC I ATC Y TAT L TTA \gt F MATG L N AAT GCA I ATT A GCT F TTT V GTA Ø GAG F TTT T ACC S AGT Q CAG F TTT r F R AGA S AGT 闰 T ACC D GAT N AAC Y TAT L ITG S AGC T ACC C TGT A GCA

Fig. 29B

348	368	388	408	424
1169	1229	1289	1349	1397
PCCT	L CTG	D GAT	S CAG	
V	M	V	M	
GTC	ATG	GTG	ATG	
T	K	H	L	
ACG	AAA	CAC	CTG	
M	V	A	H	
ATG	GTG	GCT	CAT	
D	D	W	I	*
GAT	GAC	TGG	ATC	TGA
R	E	E	I	L
AGA	GAA	GAA	ATC	TTG
V	Р	P	E	V
GTC	ССА	CCT	GAA	GTA
R	N	I	N	A
AGA	AAT	ATT	AAT	GCC
Y	S	N	YTAC	E
TAC	TCA	AAT		GAG
R	L	K	M	C
AGG	CTT	AAG	ATG	TGT
V	W.	H	R	R
GTA	TGG	CAT	CGT	CGG
CCT	D GAC	YTAC	H CAC	G GGA
T	Q	I	ССT	Q
ACT	CAG	ATC		CAG
P	G	CTC	A	S
CCA	GGT		GCT	TCC
Q	G	N	D	L
CAG	GGA	AAC	GAT	CTT
N	T	T	L	N
AAT	ACA	ACC	TTG	AAC
C	W	V	G	ACC
TGC	TGG	GTG	GGT	
K	\mathtt{M} ATG	E	W	E
AAA		GAG	TGG	GAG
E	A	S	I	E
GAA	GCA	TCT	ATC	GAG
L	T	L	F	Q
CTG	ACA	CTC	TTC	CAG

1476 1555 1634 1713 1792 1950 2029 1871 AGCCAGAAAATATCTAGACATTCTCTATATCATTCAGGTAAATCTCTTTAAAACACCTATTGTTTTTTCTATAAGCCAT ATTTTTGGAGCACTAAAGTAAAATGGCAAATTGGGACAGATATTGAGGTCTGGAGTCTGTGGATTATTGTTGACTTTGA AGCATCTGACACTGACGATCTTAGGACAACCTCCTGAGGGATGGGGCTAGGACCCATGAAGGCAGAATTACGGAGAGCA TTAAAGTACTTATTAGGTAAATAGAGGTTTTTGTATGCTATTATATATTCTACCATCTTGAAGGGTAGGTTTTTACCTGAT CAAAATAAGCTAGACATTTTCACCTTGTTGCCACAGAGACATAACACTACCTCAGGAAGCTGAGCTGCTTTAAGGACAA CAACAACAAAATCAGTGTTACAGTATGGATGAAATCTATGTTAAGCATTCTCAGAATAAGGCCAAGTTTTATAGTTGCA AAAAAGGGCGGCCGC

10	80 100 110 120 130 140 294 YILSVNRIPRGLVQPKKTGSRPVVLLQHGLVGGASNWISNLPNNSLGFILADAGFDVWMGNSRGNAWSRK ::::::::::::::::::::::::::::::::::::	150 160 170 180 190 200 210 294 HKTLSIDQDEFWAFSYDEMARFDLPAVINFILQKTGQEKIYYVGYSQGTTMGFIAFSTMPELAQKIKMYF . ::::::::::::::::::::::::::::::::::::	220 230 240 250 260 270 294 ALAPIATVKHAKSPGTKFLLPDMMIKGLFGKKEFLYQTRFLRQ-LVIYLCGQVILDQICSNIMLLLGGF :::::::::::::::::::::::::::::::::
2 H	7 H	7 H	7 H

Fig. 29D

280		290	- •	300	310	320	330	340	
294 N	TINIMINIT	ISRASVY.	AAHTL	AGTSVQNIL	HWSQAVNSGE	LRAFDWGSE	TKNLEKCNQP.	294 NINNMIMSRASVYAAHTLAGTSVQNILHWSQAVNSGELRAFDWGSETKNLEKCNQPTPVRYRVRDMTVPT	
HLP D	SKNFNT	SKNFNTSRLDVYLS	: .:. YLSHNP	:::::: AGTSVQNMFI	HWTQAVKSGK	:.::: •QAYDWGSPV	: :	HLP DSKNFNTSRLDVYLSHNPAGTSVQNMFHWTQAVKSGKFQAYDWGSPVQNRMHYDQSQPPYYNVTAMNVPI	
350		360		370	380	330	400	410	
294 AI	MTGGÇ	DMLSNP	EDVKM	LLSEVTNLI	YHKNI PEWAH	/DFIWGLDA	PHRMYNEIIH	294 AMWTGGQDWLSNPEDVKMLLSEVTNLIYHKNIPEWAHVDFIWGLDAPHRMYNEIIHLMQQEETNLSQGRC	
: HLP AM	······································	.:: (DLLADP)	ODVGL	::: ::: LLPKLPNLI	HLP AVWNGGKDLLADPQDVGLLLPKLPNLIYHKEIPFYNHLDFIWAMDAPQEVYNDIVSMISEDKK	.:::::::::::::::::::::::::::::::::::::	: · ·:·:·	 MISEDKK	
	340	m	350	360	370	380	390		
420									
294 EAVL	AVL								
д'ІН	[]]								

Fig. 29E

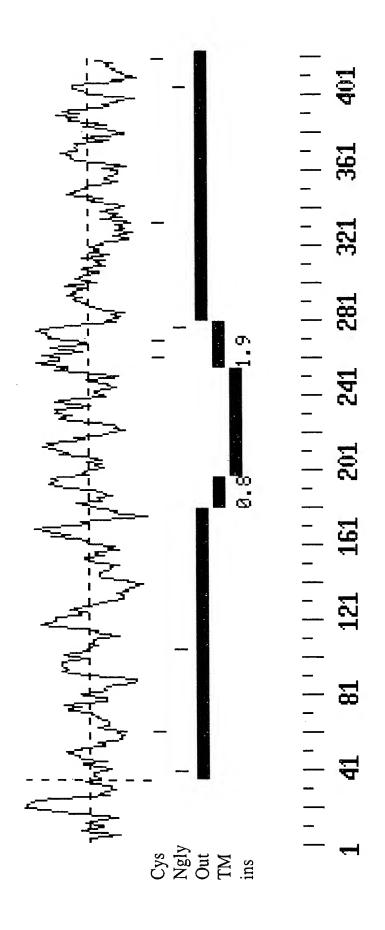


Fig. 29F

10	70 80 100 110 120 130 DGYILSVNRIPRGLVQPKKTGSRPVVLLQHGLVGGASNWISNLPNNSLGFILADAGFDVWMGNSRGNAWS ::::::::::::::::::::::::::::::::::::	140 150 200 294 RKHKTLSIDQDEFWAFSYDEMARFDLPAVINFILQKTGQEKIYYVGYSQGTTMGFIAFSTMPELAQKIKM :::::::::::::::::::::::::::::::::::	10 220 230 240 250 260 270 YFALAPIATVKHAKSPGTKFLLLPDMMIKGLFGKKEFLYQTRFLRQLVIYLCGQVILDQICSNIMLLLGG ::::::::::::::::::::::::::::::::
20 30 MWLLILVAYMFQRNVNSVHMPTK :: ::: MRFLGLVVCLVLWPLHSEGSGGK 10 20	90 100 PKKTGSRPVVLLQHGLVGGASNW :::::::::::::::::::::::::::::::::::	160 SYDEMARFDLPAVINFILQKTGQ ::::::::::::::::::::::::::::::::::::	230 240 GTKFLLLPDMMIKGLFGKKEFLY .:. ::: :::: :::: MAKLGRLPDHLIKDLFGDKEFLP 220 230
10 294 MLETLSRQWIVSHRME : LAL MK	70 80 294 DGYILSVNRIPRGLVQ ::::: .:::: . LAL DGYILCLNRIPHGRKN 60 70	140 150 294 RKHKTLSIDQDEFWAF :::::::::::::::::::::::::::::::::::	210 220 294 YFALAPIATVKHAKSP .:::.: :: LAL FFALGPVASVAFCTSP 200 210

Fig. 29G

,	280	290	300	310	320	330	340
294	FNTNNMM	MSRASVYAAHTI	LAGTSVQNILH	IWSQAVNSGEL	RAFDWGSET	KNLEKCNQPT	294 FNTNNMMMSRASVYAAHTLAGTSVQNILHWSQAVNSGELRAFDWGSETKNLEKCNQPTPVRYRVRDMTVP
	•••		••		•	•	
LAL	FNERNLM	MSRVDVYTHS	PAGTSVQNMLE	IWSQAVKFQKF	QAFDWGSSA	KNYFHYNQSY	LAL FNERNLNMSRVDVYTTHSPAGTSVQNMLHWSQAVKFQKFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVP
	270	280	290	300	310	320	330
•	350	360	370	380	390	400	410
294	TAMWTGG	DMLSNPEDVKI	MLLSEVTNLIY	THKNI PEWAHV	DFIWGLDAP	HRMYNEIIHL	294 TAMWTGGQDWLSNPEDVKMLLSEVTNLIYHKNIPEWAHVDFIWGLDAPHRMYNEIIHLMQQEETNLSQGR
				•	••••••	•••••••••••••••••••••••••••••••••••••••	•
LAL	TAVWSGGI	LAL TAVWSGGHDWLADVYDVNILLTQITNLVFHESIPEWEHLDFIWGLDAPWRLYNKIINLMRKYQ	ILLTQITNLVF	HESIPEWEHI	DFIWGLDAPV	WRLYNKI INL	MRKYQ
	340	350	360	370	380	390	
	000						
294	294 CEAVL						
LAL	 						

Fig. 29H

62 255 82 315 102 375 122 435 142 495 162 555 22 135 42 195 Q CAG L CTG S AGC E GAG ACC F C TGTН Н GTC GAC I ATC L TTA L CTG AAT GAG F TTC > Z 闰 ATG GTC S AGC Q CAG GGG L CTG GAG > G × 闰 \bowtie CCG I ATC ACC GGC Q CAG I ATT GCT H Ω ø щ 闰 $^{\mathrm{F}}$ GTG GTG GAT Q CAG TIC TAT × \gt \gt Ø щ Д ACC ACG GTG GTG TCT GCT LCTA N AAC > > ø Е ß Н CCA GCC CGG TGG AGC CCC E GAG ø 召 Д ⋈ Д ⋈ Ŋ AAG L CTG E GAG IATC ACC L TTG L GGT E ᠐ CCC A GCA CTG GGG S TCT TGG CTG П L Д > ⋈ Ö GGC ACT \overline{W} S AGT EGAG ACA CGC H α Ŋ H щ CTG S TCT CTC TGG GCT TTC TTC ď ᆸ ᄀ 'n Ŀ 3 Д AAT TAT TTTCTG S AGT ACA ACC H Н \succ 压 \mathbf{z} Ħ Д TTC ATC AGG GTG ATC TIC TTC 召 > П ſτι Н Ĺц Н ſτι CCC ATG ACG GCT GCC AAC GAG Н Ξ Ø ø Z 闰 Ō TTC ATC AAG CTG AAG GTC GAG ĪΨ Н K 니 X \gt 闰 K ACA I ATC I ATC TAC AAC GGA GGA ⊣ \Join Q Ŋ Z [1] CAC S AGC CGG GCA TCA TAC L CTG GGT 出 召 A, S Ç \succ GGA CTG AAT A GCC I ATT GCT T ACA G Ø Ы Z Ø TTG L TTG GGG AAC G G G I ATC GGC Ц G × G Z TACT TACT CCT I ATC ACC GTC ACC Ø Д > Н \vdash

30AFig.

ACT

AAG

GAG

TAC

GTG

CCT

GAC

CCA

CTG

GGG

AAG

GAG

GCT

AAG

GCA

322 1035 202 675 222 735 242 795 262 855 282 915 302 975 342 182 615 A GCC V GTG V GTG CTC V GTG FTTC L S TCA A GCT S TCA L PCCT S TCT CTGT A GCT GGA CTG C TGT T ACC MATG A GCT A GCT L CTG D GAT K AAG GGT PCCC Ω Y TAC S TCC L GGC L CTG L CTG E I ATT PCCT H LCTC L CTG L CTG G GGA R AGG D GAC E GAG D GAT GGA M ATG Q CAG H CAC T ACA H Q CAG P K AAA A GCG GTG FTTC L CTG TACC PCCT CCC S AGT S Д \gt L CTG I ATC P Q CAG N AAT $\frac{L}{TTG}$ W TGG K AAG H G GGC ACA MATG E GAG GCA R CGC A GCC C TGT CCC \vdash Д Ø Y TAC L T ACG PCCC IATC R AGG GAG L CTG S AGT 闰 Q CAG AAG L CTG A GCC S TCA W TGG H CAC M ATG GAC Д × ж С С W TGG r TTG TACC F A GCC P C TGT A GCT Y TAC LCTC A GCC Y TAC ာ ညီင L CTA GTG D GAC MATG > LCTA M ATG A GCG CHC S TCA PCCT E S A GCA ာ ၁၅ Y TAC G GGG ATG GAT K AAG FTTC T ACA R CGG Ξ Д 9 9 9 9 C TGT A GCA A GCC H CAT V GTG TACC A GCT Y TAC P CCA V GTG MATG H CAC LCTG GGT S AGT ж С S S AGC W TGG Y TAT Q CAG S TCC TACT 9 9 9 9 PCCC S R AGA L CTA V GTA F CAT L CTG N AAC S AGC GCT 田 ø PCCA M ATG L L CTG r CTG F E GAG F L CTG

Fig. 30B

* 1 * 1 * 1

344

1101

1496 2049 1575 1654 1812 1891 1970 1180 1338 aaaaaacaaaaacaaaaacaaaaagccctaagggactgaagagtgctgggcctgtccataaagcctgttgccatgataag SCCAAGCAGGGGCTAGCTTATCTGCACAGCAACCCAGCCTTTCCGTGCTGCCTTGCCTTCTTCAAGATGCTATTCACTGA AACCTAACTTCACCCCCATAACACCAGCAGGGTGGGGGTTACATATGATTCTCCTATGGTTTCCTCTCTCATCCTCTCGGCA CCTCTTGTTTTCCTTTTTCCTGGGTTCCTTTTGTTCTTCCTTTACTTCTCCAGCTTGTGTGGGCCTTTTTGGTACAATGAA AGACAGCACTGGAAAGGAGGGGAAACCAAACTTCTCATCCTAGGTCTAACATTAACCAACTATGCCACATTCTCTTTGA GCTTCAGTTCCCAAATTTGCTACATAAGATTGCAAGACTTGCCAAGAATCTTGGGATTTATCTTTCTATGCCTTGCTGA CACCTACCTTGGCCCTCAAACACCCCTCACAAGAAGCCAGGTGGGAAGTTAGGGAATCAACTCCAAAACGCTATTCCT TCCCACCCCACTCAGCTGGGCTAGCTGAGTGGCATCCAGGACGGGGGAGTGGGTGACCTGCCTCATCACTGCCACCTAA CGTCCCCCTGGGGTGGTTCAGAAGATGCTAGCTCTGGTAGGGTCCCTCCGGCCTCACTAGAGGGCGCCCTATTACTC TGGAGTCGACGCAGAATCAGGTTTCACAGCACTGCGGAGAGTGTACTAGGCTGTCTCCAGCCCAGCGAAGCTCATGA CATTCCTCCCCGTGGAGGCCACCTGGACTTCCAGTCTGGCTCCAAACCTCATTGGCGCCCCCATAAAACCAGGAACTG CCCTCAGGGTGGCTGTTACCAGACACCCCAGCACCAATCTACAGACGGAGTAGAAAAAAGGAGGCTCTATATACTGATGTT

Fig. 30C

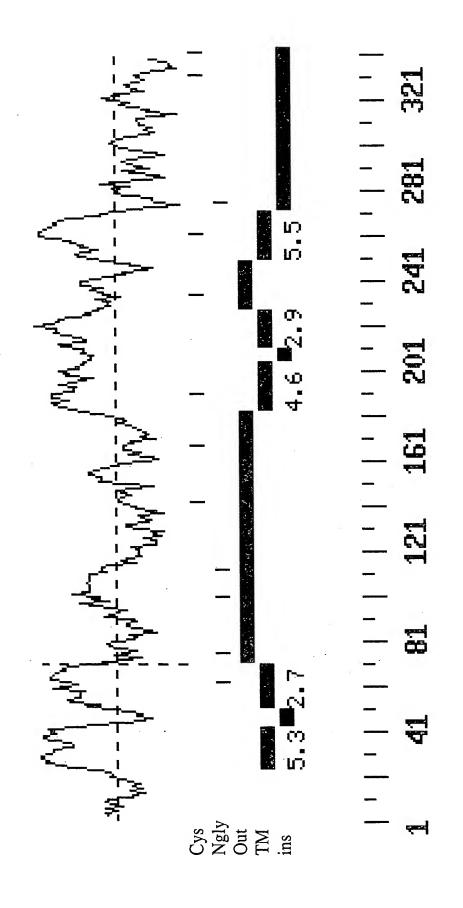


Fig. 30D

10 50 70 70 70 50 50 70 70 50 60 70 296 MATLGHTFPFYAGPKPTFPMDTTLASIIMIFLTALATFIVILPGIRGKTRLFWLLRVVTSLFIGAAILAV : : :	80 90 110 110 120 130 130 130 120 120 130 130 296 NFSSEWSVGQVSTNTSYKAFSSEWISADIGLQVGLGGVNITLTGTPVQQLNETINYNEEFTW:::::::::.::::.:	140 150 200 200 200 200 200 200 200 200 SLIGENYAEECAKALEKGLPDPVLYLAEKFT-PRSPCGLYRQYRLAGHYTSAMLWVAFLCWLLANV-MLSM . :: . : : : : : : : : : : : : : : : :	210 220 240 250 260 PVLVYGGYMLLATGIFQLLALLFFSMATSLTSPCPLHLGASVLHTHHGPAFWITLTTGLLCVL : .: .: :: :: :: :: :: :: :: :: :: :: ::
10 296 MATLGHTFPFYAGPKI :: : CRP M-RIAHASSRC	80 296 NFSSEWSVGQVSTNTS 	140 296 RLGENYAEECAKALEK . ::::. CRP SGISSMAEALHHGLEN 130	210 296 PVLVYGGYMLLATGIE : .::::: CRP PHNAYKSILATGIS 200

Fig. 30E

310 320	SPEEGGLLSPRYRSMADSPKSQDIPLSEAS	CRIGICAL CALCARING TYPI, STFI, DASI, DEHVGPKWKKI, PTGGPALOGVOIGAYGTNTTNSSRDKNDISSDKTA	310 320 330		CAL		SSSST	380		
300	1	·:· PTGGPALOGVOIG	300			••	LERTHVHFLQEPC	370 3	Fig. 30F	
290	296 LGLAMAVAHRMQPHRLKAFFNQSVDEDPMLEW	SLDEHVGPKWKKL	290	340	EAHPKDPD-	:	SASSASLRSQSSIETVHDEAELERTHVHFLQEPCSSSST	360	Fig.	
280	RMQPHRLKAFFNQ	HMRTYTLSTELDASLDEH	280		CK	•	STCQSSASSASLR	350		
270	296 LGLAMAVAHI	 	270	330	296 STKAY	:	CRP GSSGFQSRTSTCQS	340		